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TABULATIONS OF DHIA RECORDS OF DAUGHTERS OF AT SIRES

IN THE

UNITED STATES

(Part 4) (Pages 1 - 139, incl.)



Agricultural Research Service
United States Department of Agriculture

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TABULATIONS OF DHIA RECORDS OF DAUGHTERS OF AI SIRES IN THE UNITED STATES 1

In this part of the AI Tabulations is Table 10. The contents of the table is indicated by the title of the table listed in the index on the back of the cover page.

These tabulations include the DHIA lactation records of all AI daughters of all sires reported to the Dairy Cattle Research Branch, AHRD, in AI service from 1939 through January 1, 1961, and the lactation records of 461, 100 daughters of 7,618 AI sires reported to the Dairy Cattle Research Branch, AHRD, prior to May 1, 1961.

All production records used in these tabulations consist of 305-day lactation records standardized to a mature-equivalent twice-aday milking basis. When more than one lactation record were available for a cow, each record was standardized and the average of all standardized records used to represent the production capacity of the cow.

Compilation of contemporary (herd-mate) and yearly-herd-average data are dependent on herd codes to assemble such data for each sire. Because a uniform system of identifying DHIA herds by code has been in operation for only a few years, lactation records and herd-average data reported in earlier years are not identified by herd codes. Tabulations for the older sires listed, therefore, may include little or no herd-mate or yearly-herd-average data.

1/ AI Tabulations 1961 are in 5 parts (parts 1 and 3 are divided into 3 sections), published by Dairy Cattle Research Branch, Animal Husbandry Research Division, Agricultural Research Service.

ARTIFICIAL-BREEDING ORGANIZATIONS IN THE UNITED STATES

DHIA Proved-Sire Records, of sires in AB service, indicate by code number the last AB organization in which a sire is used. Following is a complete list of AB organizations that have operated in the United States (according to reports received in the Dairy Cattle Research Branch). Some no longer exist, but sires used in such organizations may be proved or reproved, in which case reference will be made to the organization in the proved-sire record.

STATE			ORGANIZATION	STAT		Ü	ORGANIZATION
Name	Code	Code	Name	Name	Code	Code	Name
Maine Maine Maine Maine	11 11 11 11	02 03 04 01	Androscoggin Valley ABA Androscoggin Valley & Central Maine ABA Central Maine ABA *Maine Breeding Co-op. Inc.	Wisconsin Wisconsin Wisconsin Wisconsin	35 35 35 35	12 13 05 14	Trempealeau Co-op. ABA Tri County ABA *Tri State Co-op. ABA University of Wisconsin ABA
New Hampshire New Hampshire New Hampshire	12 12 12	01 03 02	New Hampshire ABA *New Hampshire-Vermont ABA Willow Spring ABA	Wisconsin Wisconsin Minnesota	35 35 41	15 16 19	Vernon Co. Co-op. ABA Wisconsin Experimental Breeding Project ABA Aitkin Co. ABA
Vermont Vermont Vermont	13 13 13	03 01 02	Agri. Experimental Sta. ABA Central Vermont ABA Vermont Co-op. ABA Inc.	Minnesota Minnesota Minnesota Minnesota	41 41 41 41	05 06 04 07	Barnum ABA Central Minnesota ABA *Consolidated Breeders Co-op, ABA Floodwood Co-op, ABA
Massachusetts Massachusetts	14 14	02 01	Bristol Co, Farm Bureau Inc. ABA Massachusetts ABA Inc.	Minnesota Minnesota Minnesota	41 41 41	20 14 01	Friendly Valley ABA Land O'Lakes Creameries Inc. ABA *Minnesota Valley ABA
Rhode Island	15	01	Rhode Island Co-op. ABA Inc.	Minnesota Minnesota Minnesota	41 41 41	02 08 21	Minnesota Valley and Southern Minnesota ABA North Minnesota ABA North St. Louis Co. ABA
Connecticut Connecticut Connecticut Connecticut	16 16 16 16	01 02 03 04	Connecticut ABA Inc. Fairfield-New Haven ABA Litchfield Co. ABA *New England Selective ABA	Minnesota Minnesota Minnesota Minnesota	41 41 41 41	03 22 10 17	Northwest Minnesota ABA Pine Co. ABA Roseau Co. Creameries ABA Southern Minnesota Breeding Federation ABA
New York New York New York New York New York New York	21 21 21 21 21 21 21	03 02 04 01 05 06 07	Broome Co-op. ABA Inc. Broome Tioga Co-op. ABA Inc. Cortland ABA Inc. *New York Artificial Breeders Co-op. Inc. Roundout ABA Seneca Co-op. ABA Inc.	Minnesota Minnesota Minnesota Minnesota Minnesota	41 41 41 41 41 42	18 11 16 13 12	Swink AB Corp. Tilney Farms ABA Watonwan Truman Co-op. Creamery ABA West St. Louis Co. ABA Willard Co-op. ABA Crawford Co. ABA
New York New Jersey New Jersey New Jersey New Jersey New Jersey New Jersey	22 22 22 22 22 22 22	07 04 05 03 06 01	Sullivan Co. ABA Burlington Co. ABA Morris Co. Co-op. ABA Inc. New Jersey Experiment Station ABA *New Jersey Co-op. ABA Inc. Plainsboro ABA *Sussex Co-op. ABA Inc.	Iowa Iowa Iowa Iowa Iowa Iowa Iowa	42 42 42 42 42 42 42 42	02 04 08 03 05 06 01	*Eastern Iowa ABA Inc. Humbolt Co-op. ABA *Iowa Breeders Co-op. ABA Iowa Dairy Genetics Inc. ABA Linn Co. Co-op. ABA North Iowa Co-op. ABA Northwest Iowa Co-op. ABA Palo Alto Co-op. ABA
New Jersey Pennsylvania	22 23	08	Walker-Gordon ABA Clarion Co. ABA	Iowa Missouri	42 43	07 09	Western Iowa ABA AVA ABA
Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania Pennsylvania	23 23 23 23 23 23 23 23	02 06 07 04 08 05 01	*First Pennsylvania Co-op. ABA Golden Genes ABA Inc. *Lehigh Valley Co-op. ABA *NEPA Co-op. ABA *Southeastern Pennsylvania Co-op. ABA *Western Pennsylvania Co-op. ABA Zimmerman Dairy Farm ABA	Missouri Missouri Missouri Missouri Missouri Missouri Missouri	43 43 43 43 43 43 43	01 02 03 04 08 05 06	East Missouri ABA *M. F. A. ABA Mid West ABA Missouri Dairy Breeders ABA Osage Farms ABA Southwest Missouri ABA Trenton ABA
Ohio Ohio Ohio Ohio Ohio Ohio	31 31 31 31 31 31	01 05 02 06 03 04	*Central Ohio Breeding Association Northeast Ohio Co-op. ABA *Northern Ohio Breeding Association Inc. Northwest Ohio ABA Trumbull-Ashtabula ABA Western Ohio ABA	South Dakota Nebraska Nebraska Nebraska Nebraska	46 47 47 47 47 47	01 09 07 03 04 01	South Dakota Co-op. ABA Central Nebraska Non-stock Co-op. ABA Inc. Dairy Breeders Enterprise ABA Douglas Co-op. ABA Lancaster Non-stock Co-op. Dairy ABA *Nebraska Dairy Breeders ABA
Indiana Indiana Indiana Indiana	32 32 32 32	12 03 04 08	Bottema Farms ABA Elkhart Co. ABA Harrison ABA	Nebraska Nebraska Kansas	47 47 47	05 06	Norfolk Non-stock Co-op. ABA University of Nebraska ABA *Kansas ABA
Indiana Indiana	32 32 32	05 13 06	Harry Rosenbury ABA Indiana ABA Indianapolis Co-op. ABA Indiana State Institutions ABA	Delaware	50 50	01 02	Delaware Co-op. ABA Inc.
Indiana Indiana Indiana Indiana	32 32 32 32 32	02 07 16	*John A. Newman and Sons ABA LaPorte Co-op. ABA Inc. North Benton-Newton-Jasper ABA	Delaware Maryland Maryland	51 51	01 02	New Castle Co-op. ABA Maryland Co-op. ABA Inc. *Maryland-West Virginia Co-op. ABA
Indiana Indiana Indiana Indiana Indiana Indiana	32 32 32 32 32 32	14 09 18 15 11	Producers Creamery ABA Ross Farm ABA Southern Indiana ABA Steuben ABA Topeka ABA Walter H. Ball ABA	Virginia Virginia Virginia Virginia Virginia Virginia	52 52 52 52 52 52 52	08 10 02 03 06 04	Blue Ridge ABA Inc. Culpeper ABA Inc. Franklin Co. ABA Inc. Loudoun Co. ABA Inc. North Va. Co-op. ABA Inc. Pulaski Co-op. ABA
Illinois Illinois Illinois Illinois	33 33 33 33	09 04 03 05	American Dairy Guernsey ABA Central Illinois ABA *Curtiss Improved Stud Service Inc. Eastern Stephenson ABA	Virginia Virginia Virginia Virginia	52 52 52 52	09 07 05 01	Shenandoah Valley ABA Southeast Virginia ABA Inc. Valley of Virginia Co-op. ABA Inc. *Virginia ABA Inc.
Illinois Illinois Illinois	33 33 33	06 01 07	Inter Co. ABA *Northern Illinois Breeding Co-op. Shelby County ABA	West Virginia	54	01	West Virginia Co-op. ABA
Illinois Illinois Michigan	33 33 34	02 08 04	*Southern Illinois ABA Tri County ABA Grand Valley ABA	North Carolina North Carolina North Carolina North Carolina	55 55 55 55	04 01 02 03	Forsyth Co. ABA *North Carolina Inst. Breeders ABA North Carolina State College ABA Southeastern ABA
Michigan Michigan Michigan Michigan	34 34 34 34	05 01 03 02	Hillsdale ABA *Michigan Co-op. ABA Inc. North Kent ABA Zeeland ABA	South Carolina South Carolina South Carolina	56 56. 56	02 01 03	*Chester Co-op. ABA Clemson College ABA South Carolina Co-op. ABA
Wisconsin Wisconsin	35 35	75 01	*American Breeders Service *Associated Breeding Service ABA Inc.	Florida	58	01	Broward County ABA
Wisconsin Wisconsin	35 35	02 18	*Badger Co-op. ABA Central Wisconsin Co-op. ABA	Kentucky	61	01	*Kentucky ABA Inc.
Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin	35 35 35 35 35	20 07 08 09 03	Clark County ABA Clinton Stock Farm ABA Inc. Dane Co-op. ABA Dane Iowa Co-op. ABA **East Central Co-op. ABA	Tennessee Tennessee Tennessee Tennessee	63 63 63	01 04 02 03	*East Tennessee ABA Maury-Williamson ABA Inc. *Tennessee ABA *West Tennessee ABA
Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin	35 35 35 35 35 35	19 04 10 11 06	Langlade Co. ABA *Piper Brothers Farm ABA Polk Co. Co-op. ABA Rock Co. ABA Southern Wisconsin Co-op. ABA	Alabama Alabama	64 64	01 02	Alabama ABA Marshall Co. ABA

^{*}Indicates those AB Organizations reported in operation January 1, 1961.

STATE			ORGAN1ZATION	STA	TE		ORGANIZATION
Name	Code	Code	Name	Name	Code	Code	Name
Mississippi	65	01	Hinds Rankin ABA	Arizona	86	01	Arizona ABA
Mississippi	65	08	Noxubee Co. ABA	Arizona	86	02	*Eads ABA
Mississippi	65	06	Mid South ABA	Arizona	86	03	News ABA
Mississippi	65	02	*Mississippi Co-op. ABA				
Mississippi	65	03	Pike Co-op. ABA	Utah	87	01	*Cache Valley Co-op. ABA
Mississippi	65	05	South Mississippi Co-op. ABA	Utah	87	02	Weber Co. ABA
Mississippi	65	07	Tippah Co. Fair and Livestock ABA				
Mississippi	65	04	Tupelo ABA	Washington	91	80	Clark Co. ABA
- *			·	Washington	91	02	Colville Valley ABA
Arkansas	71	01	*Arkansas ABA	Washington	91	07	Ed. P. Peterson ABA
				Washington	91	01	*Evergreen Northwest Breeders ABA Inc.
Louisiana	72	01	*Louisiana AB Co-op. Inc.	Washington	91	09	Farwest ABA
Louisiana	72	02	Northern Louisiana Jersey ABA	Washington	91	03	Mt. Rainier ABA
				Washington	91	06	Northeast Co-op. ABA
Oklahoma	73	01	Eastern Oklahoma ABA	Washington	91	05	Northwest Co-op. ABA
Oklahoma	73	02	Northwestern Oklahoma ABA	Washington	91	04	Walla Walla Valley Co-op. ABA
Oklahoma	73	03	Oklahoma Dairy Breeders ABA				
				Oregon	92	02	Multnomah ABA
Texas	74	09	Cameron Co. ABA	Oregon	92	01	*Oregon Dairy Breeders Association
Texas	74	80	Hill Co. ABA	Oregon	92	03	Yamhill Co. ABA
Texas	74	07	Muenster ABA				
Texas	74	04	North Star ABA	California	93	02	*Adohr Dairy Farms ABA
Texas	74	02	North Texas ABA	California	93	01	*California Dairy ABA
Texas	74	05	Rio Vista ABA	California	93	03	*Excelsior ABA
Texas	74	01	*Texas A & M College ABA	California	93	04	Golden West ABA Inc.
Texas	74	03	Texas Tech ABA	California	93	05	*Jessup Breeders
				California	93	10	*Pacific Breeders Co-op. Inc.
Montana	81	01	Western Montana ABA	California	93	11	Sacramento Co-op. ABA
	0.0	0.1	m) (() m ,) m ,	California	93	07	San Pasqual ABA Inc.
ldaho	82	01	Bluffview Farm ABA	California	93	06	Santa Clara ABA
Idaho	82	03	New Plymouth ABA	California	93	08	Sonoma Marin Co-op. ABA Inc.
ldaho	82	02	Shamrock ABA	California	93	09	Tulare Co-op. ABA
Colorado	84	04	Brookridge Farm Dairy ABA	Puerto Rico	94	01	*Puerto Rico ABA
Colorado	84	01	*Colorado State University ABS				
Colorado	84	02	North Central Colorado ABA	Hawaii	95	03	*Haleakala Dairy Farm ABA
Colorado	84	05	Surface Creek ABA	Hawaii	95	02	Moanalua Dairy Ltd. ABA
Colorado	84	03	Willow Springs ABA	Hawaii	95	01	Waimea Dairy ABA
New Mexico	85	01	Now Movino ADA	Alaalaa	96	0.1	*Matanualia Wallaw ADA
Mew Mexico	80	UI	New Mexico ABA	Alaska	96	01	*Matanuska Valley ABA

^{*}Indicates those AB organizations reported in operation January 1, 1961.

STATE CODES

11	MAINE	55	NORTH CAROLINA
12	NEW HAMPSHIRE	56	SOUTH CAROLINA
13	VERMONT	57	GEORGIA
14	MASSACHUSETTS	58	FLORIDA
15	RHODE ISLAND	61	KENTUCKY
16	CONNECTICUT	63	TENNESSEE
21	NEW YORK	64	ALABAMA
22	NEW JERSEY	65	MISSISSIPPI
23	PENNSYLVANIA	71	ARKANSAS
31	OHIO	72	LOUISIANA
32	INDIANA	73	OKLAHOMA
33	ILLINOIS	74	TEXAS
34	M1CHIGAN	81	MONTANA
35	WISCONSIN	82	IDAHO
41	MINNESOTA	83	WYOMING
42	IOWA	84	COLORADO
43	MISSOURI	85	NEW MEXICO
45	NORTH DAKOTA	86	AR1ZONA
46	SOUTH DAKOTA	87	UTAH
47	NEBRASKA	88	NEVADA
48	KANSAS	91	WASHINGTON
50	DELAWARE	92	OREGON
51	MARYLAND	93	CALIFORNIA
52	VIRGINIA	94	PUERTO RICO
54	WEST VIRGINIA	95	HAWAII
		96	ALASKA

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREZUING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK	TEST PCT.	FAT LB.	305-DAY CONT RECORDS NO.		AV. FAT LB.	YEARLY F RECORDS NO.		FAT LB.
000	GUERNSEY	1947 1948 1949 1950 1951	14 4 3 4 1	6355 7823 7013 7233 6690 5790	4.9 4.9 5.3 5.0 4.7 5.1	305 375 363 358 318 294						
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955	77 13 12 8 9 4 6 3 2	12436 12748 12327 12756 14254 14305 12382 16637 15110 18920	3.6 3.6 3.6 3.6 3.8 3.5 3.8 3.7	454 458 437 465 513 551 437 623 551 696	1	11962 12950 10170 11850 11550 10440 11000 11410 12310	451 485 373 416 456 419 429 444 471	2 2 1	7778 11047 11728	384 442 441
	JERSEY	1947 1948 1949 1950 1951 1953 1954	38 15 9 1 2 4 2	7104 7977 7780 4240 8645 7518 8785 6797	5.4 5.2 4.9 6.0 5.2 5.4 5.0	385 417 375 256 465 401 437 309	1 3 2 2 1 3	8930 8630 8075 8380 6320 5997	452 445 413 464 346 296	2 1 2	81o5 6616 7456	428 340 365
	ALL 8KEEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955	129 32 24	10206 9896 9958 10402 12723 14305 10014 13496 10122 18920	4.3 4.5 4.2 3.9 3.8 4.3 4.3 4.3	417 428 405 416 488 551 411 548 405 696	6 2 4 2 3 1 5 3	11902 10940 9015 11850 9233 10440 9952 9713 7575	431 469 427 416 427 419 443 411 340	4 3 3	8971 9570 5880	406 406 390
001	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	101 51 102 197 299 439 536 634 587 464 316 285 354	7099 7064 7835 7543 7397 7469 7485 7535 7670 7919 8136 8379 8661 8939	4.9 4.8 4.9 4.9 4.9 4.9 4.9 4.9 4.9	344 343 378 368 361 369 370 372 375 389 411 419	2 3 14 43 105 220 603 565 437 287 287 287 326	8235 9177 8599 8509 8140 8220 8140 8157 9005 9429 9194 9299 9298	316 405 406 386 387 385 385 400 420 420 427 431	355 540 530 405 275 230 298 25	8223 c118 8601 8887 9012 9245 9466 9896	388 388 405 417 423 432 444 462
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	212 206 275 391 474 631 939 1260 1427 1432 1361 1670 2011	10374 10956 11104 11197 10682 10840 10717 10926 11418 11566 11827 12496 12465 12378	3.6 3.7 3.7 3.7 3.8 3.8 3.8 3.8 3.8 3.8	377 406 412 419 398 408 404 412 434 438 445 471 470 462	5 23 37 93 163 327 721 1147 1327 1297 1177 1423 1946 455	12308 12517 12337 11889 11398 11007 10753 10976 11490 11773 12096 12368 12043 11889	429 451 469 455 430 418 412 421 445 463 477 464 454	540 1080 1220 1212 1099 1347 1626 237	10372 10416 10831 11211 11408 12092 12366 12624	399 404 419 438 444 466 478 487
	JERSŁY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	54 75 122 191 274 346 417 435 430 363 267 424 560	7171 7480 7565 7727 7629 7627 7506 7578 7649 7823 7486 8542 8280 7854	5.2 5.3 5.3 5.3 5.3 5.3 5.3 5.2 5.2 5.2 5.2	375 388 399 407 405 398 395 400 399 407 410 442 428 402	2 5 12 33 63 94 142 155 160 109 112 164 327 53	6585 7790 8507 8375 7803 7905 7658 7809 7974 8136 8098 8424 8406 8097	350 395 459 461 420 421 401 415 424 427 437 412	119 140 151 94 182 340 49	7940 7744 7542 7993 8049 8701 8941 9258	418 408 409 415 420 451 455 459

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD BREED	FRESHENING YEAR	RECOROS NO.	MILK LB.	TEST PCT.	FAT La.	305-DAY CONT RECORDS NO.		AV. FAT LB.	YEARLY I RECORDS NO.		ERAGE FAT LB.
M. SHORTHORN	1954 1955 1956 1957 1958 1959	1 6 8 14 16 19 3	7200 7537 8279 9072 8321 7891 7740	3.6 3.8 3.8 3.9 3.8 3.8 3.8	260 285 310 354 312 294 291	1 4 11 5 9	6170 6220 7548 10710 10356 9262 5510	242 227 319 414 373 359 239	1 5 10 5 11	5188 6747 7776 9354 9544 9789	203 244 301 355 362 376 344
ALL &REEDS -	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	367 332 499 779 1047 1416 1d92 2330 2450 2267 1958 2395 2944 683	9002 9573 9570 9422 8945 9010 9093 9377 9849 10208 10668 11278 11162 11217	4.2 4.3 4.5 4.5 4.5 4.3 4.3 4.2 4.2 4.1	368 392 402 403 389 399 414 423 432 455 447	9 31 63 169 351 647 1297 1906 2056 1907 1587 1829 2610 566	10131 11463 10777 10343 9693 9591 9539 9834 10405 10821 11322 11598 11235	386 437 453 443 410 402 409 430 444 456 466 457	1014 1769 1096 1775 1478 1764 2482 312	9334 9488 9976 10396 10734 11363 11554 11866	397 399 414 431 438 460 470
002 AYKSHIRE	1949 1950 1951 1952 1953 1954 1955		8253 11085 7090 9547 13430 9780 14060 13620	4.1 4.1 3.8 4.4 4.3 4.1 4.3	340 450 272 414 579 405 668 544	1 1 1 1 2 1	6010 9760 10390 10850 9350 10170 9190	303 393 436 470 416 444 374	1 2 1	9897 9233 9243	405 397 387
GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	146 60 61 47 34 30 13 14 7 4 2 2	7094 7701 7652 7675 7573 8163 8076 7695 7916 8158 10105 10290 6900	5.0 4.8 4.9 4.7 4.6 4.8 5.3	351 379 380 368 367 379 395 362 381 378 487 551 253	1 4 7 5 7 9 11 6 4 2 2	7980 8770 8575 8941 7964 8231 7702 7959 8195 9538 10550 10665 6980	420 404 418 435 388 406 378 377 396 452 537 543 345	9 10 0 4 1	7872 7544 8684 8878 9298	382 361 415 427 444
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	48 46 28 25 21 8	10492 10702 11418 11995 12473 13118 13080 12270 12561 13704 14373 14830	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	381 385 417 432 448 475 469 439 440 470 486 554	5 7 8 10 13 14 15 16 5 3	9602 12806 12748 11016 10782 10828 10710 10066 10356 10903 12363 12560	361 462 450 420 410 420 413 397 398 405 489	15 15 3 1	10751 10319 9551 10524 12077 13799	4 16 405 368 409 476 540
JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	100 45 59 76 64 56 49 41 32 11 3 5	6911 7256 7837 7827 8193 8323 8211 8525 8065 9369 9770 9536 7903	5.2 5.2 5.2 5.1 5.1 5.1 5.0 5.0 4.9 4.8	356 360 409 405 411 423 413 435 403 472 484 468 390	4 2 6 13 12 16 15 11 3	7228 8560 6332 8163 7371 7629 7919 7691 9347	352 434 454 434 392 402 416 385 456	14 10 9 2	/537 8017 8042 8083 11532 9391	397 424 417 389 608 485
M. SHUKTHUKN	1947 1948 1949 1950 1951 1952	1 1 3 4 2 1	11910 7100 7820 7545 6700 8170 8090	4.0 4.0 4.0 4.2 3.7 4.1	473 269 311 302 282 306 329	1 2 1	9670 9800 8390	353 360 330 306	1	7499	289
ALL BREEDS	1947 1948 1949 1950	405 179 190 179	8386 8010 8974	4.5 4.5 4.6	364 381 399	6 12 15	9332 10610 10871	371 421 433			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BRELD, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING YEAR 1951 1952 1953 1954 1955 1956 1957 1958 1959	NO. 147 9 118 9 78 9 48 8 21 10 9 11 7 9	MILK L8. 9361 9450 9616 9416 8918 0373 1890 9751 97635 6900	TEST PCT. 4.5 4.6 4.6 4.7 4.3 5.0 4.6 3.7	FAT L8. 410 423 427 422 410 457 486 492 431	305-BAY CONT. RECORDS NO. 33 34 42 23 11 5 3 3	MILK L6. 9220 9060 8829 8775 8510 9840 11638	AV. FAT Lb. 413 408 409 593 433 508 561 462 345	Y_AKLY ERECORLS NO. 40 45 20 11 4 1 3	8876 8766 8766 8766 8765 11383 11532 10860	398 402 404 409 468 608
003	HGLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	18 9 11 11 12 12 8 12 9 11 5 10 6 12 3 13 2 14	2583 2110	3.6 3.9 3.7 3.6 3.6 3.6 3.7 3.7 3.7	35 y 35 1 443 447 433 402 367 486 502 539 433	4 5 6 3 2	10860 11340 11090 12523 10954 10676 11450 11963 12785 13030	421 442 436 464 396 399 432 453 480 486	5 6 2 2 1	10577 10866 12426 12290 13244	409 414 463 472 459
	JERSEY	1949 1950 1951 1952 1953 1954 1955 1956	1 8 2 7 2 6 3 6 2 5 2 6	7460 8460 7210 6420 6457 5915 6460 6870 4390	5.2 5.3 5.3 5.3 5.0 4.7 4.6 4.8	385 447 386 338 322 275 300 315 210	2 2 2 2 1		334 329 363 348 304	2 2 2 1	6224 6006 6823 6562	329 312 356 340 337
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	18 9 13 11 13 12 10 11 11 10 8 8 8 10 5 10 4 10	2266 1130	3.8 3.9 3.7 3.9 3.9 4.1 4.1 4.1	359 351 434 447 424 390 350 433 421 427 322	خ 4	11356	421 442 436 464 396 380 406 417 414 395	7 8 4 4 2	9333 9651 9625 9426 9903	386 388 410 406 398
004	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955	18 7 17 8 20 7 16 7 15 7 7 8 7 8	7178 7096 8272 7877 7983 7987 7541 8547 9184 8003	5.0 4.9 4.6 4.9 4.9 4.9 4.8 5.0 4.6 4.7	357 344 391 381 391 385 358 425 426 374 379	2 4, 3, 7, 6, 6, 6, 2, 2		483 379 422 420 392 393 428 423 475	5 0 5 1	8849 8440 10069 13102 14584	394 397 434 493 564
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	47 12 33 12 24 12 20 12 14 1 11 12 7 12 3 1	2169	3.5 3.5 3.5 3.5 3.5 3.6 3.6 3.6 3.5 3.5	391 433 424 440 436 410 421 425 419 370 444	5 4	13038 12312 12550 12125 11256 12084 11239 10665 11697 9500 11055	457 474 480 455 449 452 433 434 463 507	10 5 3 1 2	10415 10305 10609 10006 11047	405 425 405 367 424
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	12 0 10 1 10 1 11 7 8 6 4 9	6723 6173 7296 7653 7427 7121 7326 7882 9083 9520 2620	5.3 5.6 5.2 5.1 5.2 5.2 5.3 5.0 5.1 5.2 4.8	357 339 377 388 389 373 388 390 455 490 607	4 2 2 2 4 5 3 2	7873 7940 7465 7800 7468 7948 7703 8280 10170	400 445 404 424 406 412 410 441 537	4 5 3 2 1	8074 8373 8557 7728 9559	429 444 439 411 518
	ALL BREEDS	1947 1948 1949 1950	77 10	99 7 4 0235 0253	4.0 4.1 4.1	381 397 407	14 7 8	13038 11600 10211	457 477 440			

MAINE

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUU, BY BREED, BY YEAR OF FRESHENING

							305-LAY CENTI	EMPORARY	AV.	YEARLY F	IEKU AVI	EKAGE
STUD	BKEED	FRESHENING	RECORDS	MILK	TEST	FAF	RECUKLS	MILK	FAT	RECURDS	MILK	FAT
		YEAR	NC.	LB.	PCT.	L8.	NO.	LB.	Lt.	NC.	LB.	LB.
		1951	47	9718	4.4	410	14	10316	435			
		1952	36	9311	4.4	393	13	10643	440			
		1953	32	8447	4.5	387	21	9631	4 4	19	9510	407
		1954	20	9747	4.4	414	17	9165	413	16	9002	420
		1955	14	9718	4.5	43.3	12	9873	432	11	10077	428
		1956	6	9088	4.6	412	5	9228	419	Ł,	9641	420
		1957	6	10293	4.4	439	5	10856	460	1+	11559	482

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							,	OS-LAY CON	TEMPON AND	. A.V	VEADLY	acon Avi	EDACE
STUO	8REED	FRESHENING YEAR	RECORDS NO.	MILK LE.	TEST PCT.	FAI L6.	3	RECORD NO.	S MILK	FAT L8.	YEARLY F RECORLS NO.		FAT LB.
000	AYRSHIRL	1947	12	8664	4.5	390							
		1948	1	10250	4.4	455							
		1949	2	9950	4.4	436							
		1950	1	7900	4.3	337							
	GUERNSEY	1948	5	8158	5.1	414							
		1949	2	10790	4.9	527							
		1950	1	10940	5.0	547							
		1951	2	9000	5.0	489							
		1952	3	9070	4.7	430							
		1953 1955	2 1	9785 10530	4.6 4.9	449 519							
		1956	i	8800	4.9	428							
	HOLSTE!N	1947	4	9785	3-4	337							
		1948	1	116∠0	3.4	393							
	ALL BREEDS	1947	16	8944	4.2	377							
		1948	7	8951	4.8	417							
		1949	4	10370	4.6	481							
		1950	2	9420	4.7	442							
		1951 1952	2	9800 90 7 0	5.0 4.7	489 430							
		1953	2	9785	4.6	449							
		1955	ĩ	10530	4.9	519							
		1956	1	8800	4.9	428							
001	AYRSHIRE	1949	1	7770	3.8	294							
001	AIKSHIKL	1950	i	9030	4.6	413		1	11590	471			
		1951	i	10170	4.6	465		i	10170	407			
		1952	3	9003	4.6	412		2	9040	3/3			
		1953	2	8715	4.6	401		1		358	1	8644	376
		1954	1	10380	4.0	4 14		1		354	1	8764	348
		1955	1	11080	4.5	499				392	1	8764	348
		1956 1957	1	13950 10890	4.3 4.2	595 461		1	10160 9300	428 383	1	9243 10279	387 433
		1958	i	10760	4.2	449		i	10890	437	i	9559	386
		1959	1	15580	4.2	647		1	11410	465	1	11303	446
	CHECKLEY	1040	10	710	c 1	707		2	7000				
	GUERNSEY	1949 1950	18 35	7839 7819	5.1 4.9	396 384		2 5	7880 77 90	383 383			
		1951	80	7935	4.9	390		17	8240	402			
		1952	165	8146	4.9	395		53		406			
		1953	225	8186	4.8	393		117	8731	397	104	€621	396
		1954	234	8163	4.6	389		138		399	125	8655	399
		1955 1956	180 163	8326 8122	4.9	400 386		120 94	9097 9201	416 420	119 94	8835 8840	403 406
		1957	123	8602	4.8	411		83		438	80	9445	422
		1958	74	8953	4.7	427		42		445	38	9598	444
		1959	43	9555	4.7	447		34	9363	441	31	9660	455
		1960	8	8155	4.4	366		٠ 7	6217	383	14	8290	375
	HOLSTEIN	1947	5	13562	3.6	488							
		1948	45	10046	3.7	372		2		461			
		1949	130	11065	3.7	404		31		448			
		1950	157	11117	3.7	407		61		432 416			
		1951 1952	239 313	10926 11376	3.7 3.7	402 420		82 133		429			
		1953	297	11270	3.7	415		171		413	119	10747	401
		1954	353	11141	3.7	412		∠ 18		419	190		410
		1955	369	11411	3.8	430		232	11264	425	205	10975	407
		1956	327	11574	3.8	436		210		438	192	11189	426
		1957 1958	28 7 218	12171 12390	3.8 3.8	459 468		190 172		458 457	184 158	11640 118 7 9	444 457
		1959	164	12440	3.8	471		158		460	158	12067	464
		1960	25	12061	3.8	459		23		451	19	12372	481
	HED LEV	1947	15	41.70	<i>E</i> 3	344							
	JERSEY	1947	5	6478 7664	5.3 5.1	384		1	6450	366			
		1949	22	8008	5.1	404		4		317			
		1950	70	7402	5.1	376		11	7056	354			
		1951	157	7469	5.2	384		21		383			
		1952	278	7581	5.2	395		36		395	h. (2 40 1	205
		1953 1954	336 369	7704 7490	5.2 5.2	401 388		50 60		398 413	46 59	7701 7973	395 412
		1955	306	7788	5.2	404		61		412	56	7856	399
		1956	231	7720	5.2	404		51		429	45	7664	402
		1957	161	7971	5.2	415		32		475	34	8053	416
		1958	81	8566	5.2	447		28		461	34	8600	445
		1959 1960	55 13	8433 8245	5.1 5.3	430 445		28 9		430 473	37 5	84 13 97 16	424 490
								,	5,45	,,,	,		,,,
	ALL BREEDS	1947	20	8249	4.9	380							
		1948	50										

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRLS IN SERVICE IN ARTIFICIAL BRELDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	GROOFE	.0 01 3100, 01	BREEO, DI	ILAK	CI IK	Cancidation						
STUD	BREED	FRESHENING YEAR 1949 1950 1951	NO. 171 1 263 477	MILK LB. 10313 9681 9285	TEST PCT. 4.0 4.2 4.4	FAT LB. 402 396 394	NO. 37 78 121	MILK LB. 11633 10949 10073	FAT LB. 430 419 408	YEARLY I RECURDS NO.	HERD AVI	FAT LB.
		1952 1953 1954 1955 1956 1957 1958 1959	374 1 263 1	9275 9064 9004 9467 9565 10219 10878 11142	4.5 4.6 4.5 4.5 4.5 4.4 4.2 4.4	405 404 397 414 415 436 455 459 439	224 339 417 414 356 306 243 221	10298 9786 9908 10151 10467 11101 11181 11135 10278	417 405 411 420 432 454 455 453 444	275 375 381 332 299 231 227 28	9387 9737 9842 10040 10640 11011 11140 11315	398 407 404 417 435 453 456
002	GUERNSEY	1948 1949 1950 1951 1952 1953 1954	1 3 1 3 3 2 2 2	5550 7527 6630 6470 6650 8205 6240 7190	5.1 4.6 4.9 5.1 4.7 4.9 4.8 4.7	234 348 327 329 312 392 299 338						
	ALL BREEOS	1948 1949 1950 1951 1952 1953 1954	1 3 1 3 3 2 2 2	5550 7527 6630 6470 6650 8205 6240 7190	5.1 4.6 4.9 5.1 4.7 4.9 4.8 4.7	284 348 327 329 312 372 299 338						
003	AYRSHIRE	1949 1950 1951 1952 1953 1954 1955 1956	7 5 4 6 4 3 1 1	8269 7604 7390 7715 8243 7985 7777 8830 8310	4.0 4.4 4.4 4.3 4.2 4.3 4.2	378 331 324 336 357 331 333 367 326	1 1 1 2 2 2	8090 7890 7970 8540 7815 8115 9210 8500	312 299 299 331 331 339 379 370	2 2 1	/543 /83/ 9548 8415	300 333 396 348
	GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 3 9 23 39 84 162 152 131 104 111 26	7590 7717 7791 7854 8207 8070 7937 8255 8284 8615 8816 8203	5.1 4.8 4.9 4.7 4.7 4.6 4.7 4.7 4.6 4.6	384 367 376 370 388 370 374 390 387 401 405 373	3 10 20 42 78 88 79 56 96 23	7557 8366 8494 8717 8908 9207 9891 9674 9375	3/3 401 380 3/9 399 404 431 427 412	17 41 76 83 80 54 89	8348 8574 8625 9004 9510 9630 9165 10159	375 380 384 397 404 428 421 432
	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	8	11980 11695 10920 10546 11213 11486 10695 10894 11038 11535 12114 12279	3.4 3.8 3.9 3.8 3.8 3.8 3.8 3.9 3.9 3.9	375 374 412 406 428 437 407 418 422 441 473 441	1 11 21 47 146 2255 407 450 447 629 1486 292	12260 13610 11147 10765 11495 11491 11180 11296 11661 12024 12163 12182 11696	430 475 408 392 421 424 419 430 442 459 469 472	130 237 369 424 450 759 1443 248	112/1 105/5 16869 11097 11225 12667 12232 12682	421 408 407 423 431 461 473 468
	JERSEY	1947 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 5 21 75 124 183 163 137 143 236 342	8320 9510 9394 7994 8219 8266 7697 7681 8020 8178 8711 8849 8667	5.5 5.7 5.0 5.1 5.2 5.3 5.3 5.3 5.3 5.2 5.3 5.2 5.3	456 546 490 404 425 439 404 417 430 453 449	7 7 20 25 26 25 49 105 218 66	7000 8700 8135 7880 7721 8120 8053 8663 8571 8442	554 448 408 416 571 421 4460 451 435	14 21 35 28 50 101 245	7848 7797 7835 8071 8071 8337 8820 8730	409 401 388 411 417 439 454
	ALL BREEUS	1947 1948 1949	1 1 1 17	8320 11980	5.5 3.1	456 3 7 5	1	12260	430			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRZS IN SERVICE IN ARTIFICIAL BREEDING URGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT	MPORARY	AV.	YEAKLY	HERL AV	ERAGL
STUD	BREED	FRESHENING	KECORDS	MILK	TEST	FAT	RLCOKDS	MILK	FAT	KFCOKP?	MILK	FAI
		YEAR	NO.	LB.	PCT.	Lb.	NO.	L8.	LF.	NU.	LB.	LB.
		1950	44	10208	4.0	409	12	10876	399			
		1951	83	9450	4.3	398	27	10031	382			
		1952	227	9791	4.4	416	05	10609	419			
		1953	430	10230	4.3	432	188	10776	417	163	10626	414
		1954	747	9651	4.3	400	321	10619	413	301	10327	403
		1955	1077	9754	4.2	409	521	10701	423	482	10286	402
		1956	1128	10294	4.1	417	564	11117	433	530	10612	418
		1957	1136	10738	4.1	436	575	11373	452	580	10684	426
		1958	1410	11284	4.2	462	991	11648	465	915	11463	456
		1959	1991	11497	4.2	471	1500	11595	466	1780	11613	468
		1960	447	10779	4.2	444	361	11027	454	319	11412	462
005	AYRSHIRL	1957	2	9210	4.0	366	2	9080	370	2	7385	375
		1958	1	8460	3.9	332	1	8400	355	1	9734	423
		1959	3	9110	3.8	346	3	9010	364	J	0675	352
		1900	3	6953	3.9	279	2	8945	360	ذ	9051	367
	GUERNSEY	1959	1	9550	4.6	4 36	1	78.0	388	1	8829	424
	ALL BREEUS	1957	2	9210	4.0	360	2	4050	370		4385	375
		1958	1	8460	3.9	332	1	8460	355	1	9734	423
		1959	14	9220	4.0	369	14	8728	370	4	3712	370
		1960	3	6973	3.9	274	2	8945	300	š	7051	367

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRE. IN SERVICE IN ARTIFICIAL B EEDING ORGANIZATIONS--GROUPED BY STUD, 8Y BREED, BY YEAR OF FRESHENING

							SOS-DAY CONTE			YEARLY E		
STUD	8REED	FRESHENING YEAR	RECURDS NO.	MILK LB.	PCT.	FAI LB.	RECORDS NO.	MILK LG.	FAI LE.	RECURUS NO.	MILK LB.	EAT LB.
000	GUERNSEY	1947 1948 1949	11 1 1	6609 3810 6320	4.8 6.0 4.4	318 230 260						
	ALL BREEDS	1947 1948 1949	11 1 1	6609 3810 6320	4.0 6.0 4.4	318 230 280						
100	HOLSTEIN	1947 1948 1949 1950 1951	1 1 3 3 3	11190 12020 9467 10020 9597	3.7 3.6 3.6 3.6 3.6	411 431 343 353 339						
		1952 1953 1954 1957 1958 1959	1 2 1 1 21 30 3	9260 12015 6690 8470 11473 10878 10660	3.4 3.8 3.5 3.3 3.8 3.7 3.6	312 480 235 277 430 399 379	1 18 30 2	12790 10972 10931 9070	432 439 420 335	1 17 26 5	13451 11053 11184 11525	453 441 423 409
	JERSEY	1949 1950 1951 1952 1953 1954	7 16 27 57 143 196	7153 7085 7490 7608 7701 7436	5.2 5.6 5.5 5.4 5.3 5.2	372 389 408 411 409 389	1 18 26	12030 7902 8018	617 423 429	16 22	3051 8308	431 445
		1955 1956 1957 1958 1959 1960	238 228 204 230 265 59	7402 7381 8052 8071 8119 7928	5.1 5.2 5.2 5.2 5.2	379 376 414 422 420 413	19 17 32 111 108 41	7838 8581 9092 8385 8255 8640	420 454 480 444 431 433	20 19 44 126 209 37	8170 7977 8849 8809 8878 8776	437 417 436 456 446 442
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 10 19 30 58 145 197 238 228 205 251 295 62	11190 12020 7847 7548 7701 7637 7768 7432 7402 7381 8054 8356 8400 8060	3.7 3.6 4.7 5.2 5.3 5.4 5.2 5.1 5.1 5.1 5.1 5.0	411 431 363 384 401 409 410 388 379 376 414 423 418	1 18 26 19 17 33 129 198 43	12030 7902 8018 7838 8581 9204 8746 8661 8660	617 423 429 420 454 478 444 429 428	16 22 20 19 45 143 237	8051 8308 8170 7977 8951 9076 9151 8982	431 445 437 417 436 454 443 439
002	AYRSHIRE	1947 1948 1949 1950 1951 1952 1953 1954 1955	8 14 26 27 20 17 15 10 11 4 2	7688 8461 9331 8941 10281 9947 10019 9753 10268 10250 12105	4.2 4.1 4.2 4.1 4.1 4.1 4.1 3.7	326 349 395 374 426 420 408 397 417 416 474	1 5 6 5 6 4 4 3	8110 9588 10080 9364 9040 9745 9620 11493	353 412 409 383 365 403 386 477 606	3 4 4 2	9618 9023 9352 9205	401 369 383 368
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955	58 28 28 16 20 16 14 6 3	7223 7826 8096 7796 7966 8070 8390 9060 10680 8440	4.6 4.5 4.6 4.6 4.6 4.7 4.7	329 349 362 356 359 370 386 428 506 427						
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	21 20 17 6 7	10141 9841 9719 11158 11630 11724 12931 12983 13586 15201 13770	3.9 3.8 3.7 3.7 3.8 3.7 3.8 3.7 3.9 3.6	392 374 364 415 444 436 495 476 531 553 491	1 2 2 2 2 1 2 2 2	13 190 115 15 10855 11490 12900 11320 12540 12755 13470	427 438 403 442 486 415 467 479 515	1 1 2 2 2	11369 12208 11778 12524 12077	409 441 434 475 461

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY STUD, BY BRIED, BY YEAR OF FRESHENING

							305-BAY CONT		AV.	YLAKLY 1		ERAGE
STU0	BREEO	FRESHENING	RECUROS	MILK	TEST	FA1	RLCORDS	MILK	FAI	RLCURUS	MILK	FAT
		YEAK	NO.	LB.	PCT.	LU.	NU.	LB.	Lu.	40.	Lö.	LB.
	JERSEY	1947	22	6633	5.2	342						
		1948	16	7580	5.1	3 d 4						
		1949	12	8036	5.1	410						
		1950	14	7711	5.2	396						
		1951	7	8117	5.1	416						
		1952	8	8174	5.2	430						
		1953	5	8898	5.3	479						
		1954	3	6773	5.0	353						
		1955	3	7817	5.2	417						
		1956	2	8485	5.1	433						
		1957	1	9490	5.0	502						
	ALL BREEDS	1947	121	7942	4.5	348						
		1948	7 ت	8555	4.3	364						
		1949	92	8952	4.3	378	2	10650	390			
		1950	83	9207	4.3	387	7	10139	420			
		1951	68	9794	4 • ٥	411	8	10274	408			
		1952	61	9805	4.3	415	7	9971	400			
		1953	51	10433	4.2	438	ь	10005	395	4	10056	403
		1954	25	10028	4.2	413	5	10060	405	5	4060	383
		1955	24	10981	4.2	461	6	10593	413	6	10161	400
		1956	14	12344	4.1	467	5	11998	478	4	11015	421
		1957	8	12881	3.8	483	2	13935	201	1	12077	461
003	JERSEY	1947	1	4700	5.1	243						
		1948	1	5750	4.8	277						
		1949	i	6070	5.1	308						
		1950	2	4240	5.3	222						
		1951	2	5405	4.9	264						
	ALL BREEDS	1947	1	4700	5.1	243						
		1948	1	5750	4.0	277						
		1949	i	6070	5.1	306						
		1750	2	4240	5.3	222						
		1951	2	5405	4.9	264						

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIR S IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING	RECORDS NO.	MILK	TEST PCT.	FAT LB.	305-DAY CONTE RECORDS NO.		AV. FAT LB.	YEARLY H	IERD AVI MILK LB.	FAT LB.
000	AYRSHIRE	YEAR 1947 1948 1949 1950 1951	1 4 4 14 11 7	10600 780B 8733 10879 10475 10369	4.1 4.1 4.0 4.0 3.9 3.9	430 319 345 434 412 407	No.	20.				
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	3 1 2 1 6 7 5 2 3 3	8313 7310 9255 8210 7657 7286 6994 6970 7973 6997 7100	4.7 4.8 4.9 5.1 4.9 4.9 4.8 4.8 4.5 4.5	392 353 456 416 374 356 330 333 354 316 305	2 3 4 2 3 3 1	7960 8953 8338 6770 10917 9510 9230	328 371 353 314 411 383 428	4 2 3 3 1	8061 7063 9632 9806 9614	358 330 382 405 452
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1353	33 1B 10 13 6 6 7	10697 13241 13592 14423 15472 15798 15560 13885	3.7 3.6 3.5 3.2 3.2 3.1	396 484 484 495 498 512 485	2 1 2 1 2	15360 15200 15810 14690 14835	586 544 576 516 497	1 2	16208 1522 7	584 538
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	37 23 16 28 23 20 6 4 3 3	10501 12038 11835 12429 11043 10919 8422 10428 7973 6997 7100	3.8 3.8 3.8 4.0 4.1 4.5 3.9 4.5 4.5	396 450 445 462 425 421 356 377 354 316 305	2 3 5 5 4 3 3	15360 10373 11696 9608 10803 10917 9510 9230	586 400 453 385 405 411 383 428	5 4 3 3	9690 11145 9632 9806 9614	403 434 382 405 452
001	AYRSHIRE	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	20 20 43 126 235 363 575 754 834 721 617 611 823 183	10225 9497 9604 9424 8922 8929 9050 8930 9040 9237 9749 9895 9693 9823	4.0 4.0 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	407 376 388 388 368 368 375 371 374 380 400 405 398 399	5 22 71 150 347 475 545 491 452 506 790 162	9224 9108 9507 9272 9153 9091 9104 9522 9948 9967 9748 9758	391 371 388 379 375 375 375 379 407 410 399 400	308 426 489 439 415 452 480 134	8907 8987 8967 9369 9719 9993 10015	366 369 366 386 397 408 409 414
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 13 27 118 225 382 503 577 629 513 387 313 255 43	9874 8170 9378 8665 8044 8000 7980 7825 7882 8055 8172 8750 8663 8515	4.5 4.7 4.8 4.8 4.8 4.8 4.8 4.8 4.8	443 399 439 415 382 381 380 372 375 384 386 415 412 402	1 4 9 35 94 231 394 463 528 415 320 263 236 39	10510 9705 9431 9557 9131 8852 8830 8964 9095 9457 9623 9326 9147 8754	463 458 452 445 419 404 401 406 411 429 438 424 426 399	371 431 497 387 299 232 210 37	8761 8927 8957 8960 9323 9374 9399 9330	400 408 407 408 422 432 435
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	49 43 87 249 494 871 1309 2016 1901 1903 2088 2348 390	12021 11416 12249 11762 11312 11358 11399 11407 11463 11980 12379 12711 12759	3.6 3.5 3.5 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.8 3.8	427 399 434 434 415 419 420 420 424 441 457 477 480	2 3 11 71 208 519 1680 1454 1630 1548 1509 1d61 2285	4660 12740 12806 11863 11326 11672 11438 11485 11629 1235B 12531 12370 12342	174 465 472 443 430 435 425 427 433 469 469 460	981 1336 1505 1483 1401 1643 2102	11466 11547 11395 12098 12438 12847 12863	428 433 426 455 470 484 488

STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAI	305-LAY CONTI RECORDS	MILK	FAT	YEAKLY F	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NU.	LB.	LB.	NU.	L8.	L8-
	JERSEY	1949	1	4700	5.2	243						
		1950	1	7860	5.3	418						
		1951	10	6702	5.5	365	3	6893	505			
		1952	36	7609	5.4	410	13	8352	441			
		1953	63	7704	5.3	408	26	7770	415	20	7490	420
		1954	68	7329	5.3	384	23	7997	426	26	7975	423
		1955	69 55	7038	5.3	407	20	8134	433	20	8231	437
		1956 1957	50 50	7591 8116	5.2 5.2	391 420	24 18	7975 8823	412 454	21 17	7895 2404	416 425
		1958	114	8217	5.2	421	53	8577	452	67	88/1	461
		1959	143	7830	5.3	409	78	8294	429	109	8982	451
		1960	28	7/56	5.1	396	ie	8561	448	24	9522	467
	BROWN SWISS	1950 1951	1 5	15530	4.3	665 546						
		1952	16	12506 10568	4.4	466	7	11653	482			
		1953	60	11131	4.1	460	20	10972	461	12	10505	432
		1954	85	10669	4.3	453	,5	10804	453	14	10656	466
		1955	118	10637	4.1	439	45	10570	442	 د 4	10510	436
		1956	115	9949	4 - 1	408	44	10501	431	39	10614	441
		1957	122	10662	4.1	441	35	10486	436	35	11577	473
		1958	215	11452	4.1	474	73	10498	439	7∠	10556	4 30
		1959	187	11057	4.2	463	109	16664	448	111	10044	422
		1960	4 7	8934	4 - 1	371	۷.6	7708	331	32	9237	394
	ALL BREEDS	1947	74	11390	3.7	423	3	6610	270			
		1948	76	10356	3.9	393	7	11006	401			
		1949	158	10991	3.9	421	25	10876	449			
		1950	495	10428	4 . I	418	128	10759	431			
		1951	969	9932	4.1	395	3/6	10427	420			
		1952	166B	9972	4 - 1	399	920	10526	419	1.40	107:1	1. 10
		1953 1954	2510 318 3	10077 10064	4 - 1	402 400	1867 2420	10407 10492	411 413	1698 2227	10351 10514	410 416
		1955	3666	10199	4 • 1 4 • 0	400	2768	10492	417	2554	10416	410
		1956	3305	10629	4.0	417	2522	11255	439	2569	11018	434
		1957	3079	11186	4.0	435	2334	11573	452	2169	11439	449
		1958	3341	11591	4.0	456	2756	11516	454	2466	11822	463
		1959	3/56	11536	4.0	454	3498	11398	448	3312	11750	463
		1960	691	10874	4 - 0	428	597	10873	429	548	11788	467
002	AYRSHIRE	1955	2	9570	4.5	421	2	10575	411	1	8971	373
	-	1956	8	9131	4.1	380	6	9110	351	6	8070	325
		1957	7	8016	4.0	323	6	9303	365	6	9036	349
		1958	3	6907	3.6	249	3	8710	330	4	7788	289
		1459	1	6300	4.1	260	1		438	I	9570	387
		1960	1	10110	3.6	363	1	13490	5 35	1	10551	417
	GUERNSEY	1947	2	8370	4.6	360						
		1948	1	B150	5.0	406						
		1949	2	7/80	4.8	370						
	ALL BREEDS	1947	2	8370	4.6	380						
		1948	1	8150	5.0	406						
		1949	2	7780	4.8	370						
		1955	2	9570	4.5	42 I	2	10575	411	1	1198	373
		1956	8	9131	4.1	380	6	9110	351	6	8070	325
		1957	7	8016	4.0	323	6	9303	365	6	9036	349
		1958	3	6907	3.6	249	3	8710	330	۷.	7788	289
		1959 1960	1	6300 10110	4.1 3.6	260 363	1	11100 13490	438 535	1 1	9570 10551	387 417
		1700		10110	3.0	20.3		13490	223		10331	411

TABLE 10.--AVERAGE OF THE RECUROS OF DAUGHTERS OF SIKES IN SERVICE IN ARTIFICIAL BREEDING OKGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

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							305-DAY CONTE	=MPORAKY	AV.	YEARLY F	LERD AV	EKAGE
STUO	BREE0	FRESHENING	RECOROS	MILK	TLST	FAT	RECOROS		FAT	RECURLS		FAT
3.00	5,1223	YEAR	NO.	Lb.	PCT.	LB.	NO.	LS.	LB.	NO.	Lb.	Lt.
001	AYKSHIRE	1952	9	9889	4.2	408						
		1953	13	9990	4.2	417	2	12045	507			
		1954	14	9527	4.1	395	3	11690	478	2	11091	462
		1955	13	9760	4.1	396	3	11630	460	3	11205	469
		1956	5	10316	4.2	438	2	11220	446	2	10613	448
		1957	2	11395	4.0	460	1	11730	461	1	11532	451
		1958	4	9355	4.1	379	ц	12145	488	1	12241	499
		1959	6	10582	4.0	426	5	10342	406	6	10995	437
		1960	1	9150	4.0	365				1	11053	468
	GUERNSEY	1951	2	9010	4.3	435						
		1952	8	7825	5.1	404	2	8000	391			
		1953	11	7945	5.0	394	8	9264	423	ک	7972	381
		1954	27	8519	4.8	400	19	9597	432	16	9298	429
		1955	19	8013	4.9	392	17	9182	429	14	8894	406
		1956	16	8092	5.0	403	9	9476	435	0	8724	404
		1957	14	8146	4.9	398	10	9607	446	10	8654	4 1 4
		1958	9	8498	5.0	423	6	7965	345	4	9153	409
		1959	6	9692	4.9	482	6	9643	441	3	9251	416
	HOLSTEIN	1949	7	10659	4.0	430	2	10060	370			
		1950	12	12040	3.9	465	L ₄	15338	532			
		1951	9	12/91	3.8	489	3	14647	519			
		2د19	11	12411	4.0	494	4	13388	513			
		1953	37	11038	4.0	437	6	12732	529	_	12971	481
		1954	58	11811	4.0	467	19	10831	439	17	11074	443
		1955	54	11607	3.4	450	20	11577	441	19	11037	418
		1956	33	12110	3.9	468	10	12475	456	1	13227	483
		1957	45	12864	3.8	487	23	12593	473	≥1	12209	458
		1958	73	12911	3.8	485	55	12992	467	35	12520	481
		1959	112	12/47	3.8	480	106	12526	468	91	12425	467
		1960	21	11396	3.7	423	17	11431	432	13	12092	462
	JERSEY	1952	1	6790	4.6	311						
		1953	7	8247	5.7	469	1	8090	439			
		1954	6	9057	5.4	492	1	8110	454	1	8578	463
		1955	3	7997	5.7	452						
		1956	2	5600	5.2	289						
		1957	1	9420	5.2	491						
		1959	2	8455	5.2	442				1	8438	486
	ALL BREEDS	1949	7	10659	4.0	430		10060	570			
		1950	12	12040	3.9	465	4	15338	532			
		1951	11	12104	4.0	479	3	14647	519			
		1952	29	10169	4.4	436	6	11592	474		2.22	
		1953	68	10050	4.4	430	17	10746	471	.5	9771	421
		1954	105	10503	4.3	445	42	10276	439	30	10168	438
		1955	89	10448	4.2	430	40	10563	439	36	10218	417
		1956	56	10569	4.3	440	21	11070	446	15	11104	447
		1957	62	11696	4.1	466	3 4	11689	465	3∠	11077	444
		1958	86	12284	3.9	4/3	٥5	12476	474	40	12176	474
		1959	126	12430	3.9	477	117	12285	464	10 1	12211	464
		1960	22	11294	3.7	420	17	11431	432	19	12038	462

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN RTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREZO, BY YEAR OF FRESHENING

STU0	8REED	FRESHENING YEAK	RECOROS NO.	MILK L8.	TEST PCT.	FAT LB.	305-DAY CONTA RECURDS NO.		AV. FAT LB.	YEARLY H RECORDS NO.		FAT
000	AYRSHIRE	1947	99	9532	4.1	389	1	10640	386			
000	A THOMAS	1948	12	10966	4.0	437						
		1949	7	10724	4.0	431	1	12670	478			
		1950	6	11460	3.9	448	1	8820	351			
		1951	4	10555	3.9	412	1	10560	441			
		1952 1953	2	14030 8260	4 • 1 3 • 7	585 307	i	10070 8640	408 301	1	9254	574
		1954	ĺ	11320	4.1	4/0	•	0040	301	'	7234	214
		1955	2	12315	4.1	500						
		1956	1	10670	4.6	426						
	GUERNSEY	1947	77	8138	4.6	374	4	8520	443			
	JULKNIJET	1948	17	8499	4.6	408	3	8177	367			
		1949	20	9063	4.6	414	4	9095	414			
		1950	21	8903	4.6	412	7	8124	385			
		1951	16	9741	4.5	439	5	8946	416			
		1952	13	9537	4.4	416	6	8698	398		05.07	420
		1953 1954	10 1	8967 6700	4.5	396 266	5	8042 84 7 0	362 379	4	850 7 8 3 82	364
		1957	i	6700	4.4	24%	i	10670	501	i	10311	434
		1958	i	6720	4.3	290	i	9570	421	i	11532	473
		1959	1	11660	4.5	530	1	9520	458	1	9723	470
	HOLSTEIN	1947	131	10583	3.5	374	5	11954	444			
	.702372414	1948	25	11760	3.6	421	3	10760	404			
		1949	18	11722	3.6	426	3	11853	450			
		1950	12	12163	3.6	437	3	11630	427			
		1951	9	13064	3.6	462	3	11693	420			
		1952	5	12010	3.7	433	2	11060	393			7.0
		1953 1954	5 2	11282 9880	3.8	426	5 2	10578 11680	380	5 2	10054 11189	360 412
		1734	2	9000	3.8	372	۷.	11000	435	2	11109	412
	JERSEY	1947	22	8107	5.2	424						
		1948	4	9415	4.9	460						
		1949	6	9975	4.9	483						
		1950 1951	6 5	7260	5.1	367 475						
		1952	3	9548 946 7	4.9	425						
		1953	3	6433	5.3	336	1	9060	405	1	7140	380
	ALL BREEDS	1947	329	9533	4.1	382	10	10449	4 38			
	ALL BREEDS	1948	58	10595	4.1	423	6	9468	385			
		1949	51	10337	4.2	429	8	10576	435			
		1950	45	9694	4.3	417	11	9144	393			
		1951	34	10688	4.2	447	9	10041	420			
		1952	24	10605	4-2	442	9	9376	398		6.1.1	
		1953 1954	20 4	9095 9445	4.3 4.0	385 3 7 5	12 3	9233 10610	373 416	11 3	9154 10253	374 396
		1955	2	12315	4.1	500	J	10010	410	٦	10233	376
		1956	ī	10670	4.0	426						
		195 7	1	6700	4.4	272	1	10670	501	1	10311	434
		1958	1	6720	4.3	290	1	9570	421	1	11532	473
		1959	1	11660	4.5	530	1	9520	458	1	9723	470
001	AYRSHIRE	1947	32	8953	4.3	381	7	10326	414			
		1948	22	9110	4.1	374	3	10127	598			
		1949	31	9688	4.1	402	8	8789	363			
		1950	27	9993	4.1	409	6 5	8358	352			
		1951 1952	22 15	9843	4.0	401 388	5	9470 9612	37 7 384			
		1953	13	10439	4.0	420	6	9758	399	6	10110	407
		1954	10	10572	3.9	417	5	9470	391	5	8696	362
		1955	7	9559	3.8	363	2	8585	343	2	8622	346
		1956	4	11158	3.9	439	1	9600	579	1	9047	346
		1957	2	10690	4.2	443	1	8920	366	1	9320	376
		1958 1959	1	7270 9420	4.2 4.0	303 3 7 2	1	10026	408	1	10758	436
										•		. 30
	GUERNSEY	1947 1948	14 23	7844	4.6	358	1 4	8200	402			
		1949	64	8555 8351	4.7	402 395	16	8590 95 7 3	424			
		1950	99	8318	4.7		23	9775	451			
		1951	178	8272	4.7	390	67	9093	416			
		1952	243	8078	4.7	378	120	8778	405			
		1953	305	8238	4.7	388	2.32	8841	598	212	8834	407
		1954	395	8242	4.8	391	343	8861	404	303	8955	409
		1955 1956	442 338	8363 8372	4.8	398 395	403 304	9262 9566	422	374	9001	407
		1957	246	8946	4.7	422	223	10117	426 451	25 I 210	9263 9756	42 1 434
		1958	195	8976	4.7	423	157	10049	453	130	9887	446
		1959	125	9061	4.7	426	118	9695	444	107	9909	456
		1960	20	9006	4.7	422	20	9223	428	13	9351	422

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--CROUPED BY STUD, BY BREED, 8Y YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONTI RECORDS NO.		AV. FAT LB.	YEARLY F RECORDS NO.	HERD AV MILK LB.	ERAGE FAT LB.
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	266 163 267 342 467 704 734 881 1076 1133 1048 1051 1049	10894 10820 11845 11819 11558 11632 11741 11804 11834 12209 12705 12844 12977 12950	3.6 3.6 3.6 3.7 3.6 3.7 3.7 3.7 3.7 3.7	394 429 428 421 417 427 435 449 469 478 482 479	21 32 57 100 194 392 601 795 1011 1050 952 898 1023 122	12435 11733 12218 12040 12015 11877 11734 11867 12096 12598 13125 13063 12721	455 432 446 441 440 434 433 439 449 469 490 494 473	571 752 973 999 900 833 989	11331 11817 11641 12029 12570 13093 12994 12910	419 437 431 451 469 491 487
	JERSEY	1954 1955 1956 1957 1958 1959	2 15 16 21 28 24	7820 7347 8254 8352 8372 9397 9300	5.9 5.5 5.4 5.6 5.4	466 404 441 444 469 506 428	1 4 5 4 10 12	9010 7730 9302 9045 10498 10494	486 396 492 479 547 563	1 4 3 3 13 15	9734 8126 7539 8462 9747 10704	510 409 411 431 506 525
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	312 208 362 468 667 962 1052 1288 1540 1491 1317 1275 1199 152	10558 10388 11043 10973 10630 10706 10709 10696 10784 11294 11930 12150 12494 12407	3.7 3.8 3.9 3.9 3.9 4.0 4.0 4.0 3.9 3.9 3.9	391 392 421 419 412 408 416 416 424 437 460 469 471	29 39 81 129 206 517 839 1144 1420 1360 1160 1065 1154	11780 11287 11357 11465 11231 11135 10920 10959 11274 11906 12539 12539 12386 12014	443 429 441 439 433 426 423 429 441 459 483 488 474 467	789 1061 1353 1254 1114 976 1112	10650 10983 10896 11463 12026 12621 12670 12497	4 15 429 424 445 462 485 484 477
002	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	81 13 18 11 11 11 12 8 7 8 4 3 3	8016 8365 9383 9305 9694 9422 9241 9696 9833 9863 12993 13890 13010	4.9 4.6 4.7 4.8 4.7 4.5 4.5 4.3 4.0 3.9	390 387 438 435 467 442 418 431 440 422 546 550 514	3 3 5 7 7 4 2 3	8177 9193 8580 8234 8517 8718 8610 8323 9770	387 424 404 382 414 417 411 402 479	4 2 7 4 1	9298 7799 7864 9028 8469 9941	435 363 374 419 413 483
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	41 32 32 28 19	10590 11549 12297 11771 12176 11780 11835 13819 12921 13489 15930 14937 15390	3.7 3.6 3.6 3.5 3.5 3.5 3.7 3.6 3.7 3.8 3.6	390 415 436 423 428 420 417 484 474 490 593 573 558	7 10 12 9 12 13 14 11 8 7 5 3	12954 12848 12231 11908 12724 11844 11286 12685 12111 12656 13560 13880 11970	477 482 447 431 464 432 415 474 459 476 502 535 475		11062 12499 12245 12099 13500 13774 12088	406 469 463 466 517 533 455
	ALL BRECUS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	43 40 27 19	9181 10810 11408 11140 11541 11073 11066 12300 11377 12170 14829 14413 14200	4.3 3.9 3.9 3.8 3.9 3.8 3.9 4.1 3.9 3.9	390 408 437 426 438 427 417 465 457 465 575 562	7 10 12 9 15 16 19 18 15 11 7 6	12954 12848 12231 11908 11815 11347 10574 10954 10434 111224 12146 11102 10870	477 482 447 431 448 431 412 438 438 454 476 469	18 13 15 11 4 4 2	10670 11776 10200 10962 13500 12448 11015	412 453 422 449 517 503 469
003	AYRSHIRE	1947 1948 1949 1950 1951	29 40 50 38 41	9408 8860 10045 10312	4.0 4.2 4.2 4.1	376 369 429 427	2 5 5 3	8415 10134 9566 9850	332 398 416 408			

TABLE 10.---AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	010011	.0 01 31007 01	DIVELDY C	JI ILAN	01 11	L STILL IT	,					
STUD	BREED	FRESHENING	RECORDS	MILK	IcST	FAT	305-DAY CONTE		AV. FAT	YEARLY I RECORUS	TERD AV	EKAGE FAT
3100	DIVEED	YEAR	NO.	LB.	PCT.	L8.	NO.	LB.	LB.	NO.	LB.	LB.
		1952	43	9541	4.0	382	4	9040	361			
		1953	26	9704	3.9	385	6	9262	372	6	9165	366
		1954		10066	4.0	404	5	8370	345	5	7841	328
		1955	11	10656	4.1	432	3	9120	370	3	8709	356
		1956	4	9123	4.2	382						
		1957	14	10775	3.9	421						
	GUERNSEY	1947	58	9174	4.7	430	1	11560	386			
		1948	31	8403	4.7	392	2	9080	437			
		1949	25	9288	4.6	422	5		479			
		1950	21	9167	4.6	423		10032	487			
		1951	18	9814	4.5	436	5	9272	411			
		1952	19	9704	4.4	423	8	9581	430			
		1953	14	10777	4.4	467	12	10168	447	16	9373	433
		1954	6	11455	4.2	476	6	9783	433	6	9992	446
		1955	8	9884	4.3	419	8	9426	433	ь	9196	419
		1956	4	9773	4.7	460	4	9635	430	4	9088	406
		1957	1	7360	4.7	343	1	9160	414	1	10311	434
		1958	3	10593	4.6	486	3	8837	413	3	9919	437
		1959	1	9560	4.9	469	1	10370	474	1	11554	500
		1960	1	8610	4.0	342	1	8280	361	1	8618	384
	HOLSTEIN	1947		10594	3.6	377	ų	9888	358			
		1948 1949	70	11384	3.6	408	6	11252 11745	391 419			
		1950	59 62	12680 12525	3.6 3.7	450 457	11 12	11635	431			
		1951		12607	3.7	461	13	11553	426			
		1952		12147	3.5	426		11508	431			
		1953		12148	3.6	429		12136	451	12	11748	433
		1954	21	12660	3.7	466		11636	436		11638	432
		1955		12001	3.7	439		11885	446		11359	423
		1956		12338	3.6	442	3	12643	472		12092	453
		1957	3	15623	3.5	552	1	11800	472	1	12437	501
		1958	5	14 156	3.5	489	1	11900	441	1	9352	350
	ALL BREEDS	1947	182	9952	4.0	394	7	9706	354			
		1948	141	10013	4.0	393	13	10488	401			
		1949		11064	4.0	437	21	11033	433			
		1950	121	11247	4.0	442	20	10967	442			
		1951	104	11116	4.0	438	24	10602	415			
		1952 1953	103 72	10608 10999	3.9 3.8	407 420	25 31	10505 10818	419 434	2 =	10346	418
		1954	45	11462	3.9	442	19	10192	411		10035	408
		1955	39	11187	3.9	433	24		432		10307	413
		1956	16	10093	4.0	432	7	10924	448	7	10375	426
		1957	8	12166	3.9	460		10480	443	2	11374	468
		1958		12820	3.9	488	4	9640	420	4	9777	415
		1959	1	9560	4.9	469	1	10390	474	1	11554	500
		1960	1	8610	4.0	342	1	8260	361	1	8818	384
004	AYRSHIRL	1957	6	10878	4.4	476	4	10155	4∠3	žį.	2194	387
		1958	62	9302	4.3	402	52	10227	419	50	10215	430
		1959	174	9457	4.3	406	171	10269	419	152	10477	427
		1960	50	9190	4.3	400	41	9773	393	42	10494	431
	GUERNSEY	1951	10	8450	4.9	418	i,	8180	388			
		1952	25	7908	4.9	385	12	9393	424			
		1953	20	8057	5.1	407	13	6824	386	12	8088	392
		1954	17	8038	5.0	433	13	9265	410	16	9044	404
		1955	24	9685	4.6	464	19	9179	412	10	4346	421
		1956	28	9010	4.9	445	20	10696	480	20	9488	433
		1957	40	8499	4.9	417	31	10458	456	30	9942	437
		1958	70	8393	4.9	407	56	96.58	426	53	9595	428
		1959 1960	120 29	8710 8497	4.9	427 405	119 28	9930 9109	442 413	112 20	9932	443
			24	0471	4.0		20	9109	413	20	9726	436
	HOLSTEIN	1951	1	12510	3.5	436						
		1952	29	12396	3.6	445	16	11523	414			
		1953	54	12405	3.7	457	49	11642	427	45	11249	411
		1954	108	12838	3.7	474	100	11875	443	92	11917	443
		1955	193	12516	3.7	460	167	12145	455	169	11761	439
		1956 1957	210	12781	3.7	469	196	12736	473	179	12171	456
		1958	338 588	13003	3.7 3.8	479 499	298 528	13127 13021	491	275	12442	466
		1959	1211	13132	3.8	499	1174	12897	489 487	495 1156	13038 13306	489 501
		1960	228	12419	3.7	464	195	12296	403	186	13179	495
	JEKSLY	1957	17	8820	5.1	453	7	8689	454	0	8768	437
		1958	69	8402	5.4	454	28	8654	467	39	9239	485
		1959	168	8096	5.4	477	109	8865	475	130	9421	485
		1960	36	7328	5.4	392	19	8005	418	28	9449	468
	ALL BREEDS	1951	11	8819	4.8	419	14	8180	388			
		1952	54	10318		417	28	10610	418			
		1953	74									

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONTE	MPOKARY	AV.	YLARLY H	LRD AV	ERAGE
STUD	BREED	FRESHLNING	KECURDS	MILK	TEST	FAT	RECORDS	MILK	FAI	RECURIS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NO.	LB.	LB.	NO.	LB.	LB.
		1954	125	12290	3.9	468	113	11574	439	10∠	11036	439
		1955	217	12203	3.8	461	206	11872	451	187	14551	437
		1956	238	12338	5.8	466	∠16	12547	474	199	11702	454
		1957	401	12345	5.9	472	340	12757	486	315	12095	462
		1958	789	12126	4.0	419	664	12333	478	637	12297	479
		1959	1673	12008	4.1	479	1573	12109	476	1550	12459	489
		1960	343	11082	4.1	442	283	11327	445	276	12142	478

TABLE 10.--AVERAGE OF THE R. CORDS OF DAUGHTERS OF SIRES IN SER ICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8KLED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONTE RECORDS NO.	MPORARY MILK LB.	AV. FAT LB.	YEARLY II RECORDS	ERÐ AVE MILK Lb.	RAGE FAT LB.
000	GUEKNSEY	1947 1948 1949 1950 1951 1952 1953 1954	83 10 14 10 7 6 2 2 2	83 19 8625 9591 8812 7766 8763 7210 7520 6175	5.0 5.2 4.9 5.1 5.1 4.8 4.7 4.7	406 445 460 448 398 422 340 350 321						
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	361 62 50 30 25 19 11 10 8 5 4	11370 11535 12036 11638 11704 12245 11321 11210 11494 11930 11493 13443 12480 11290	3.7 3.7 3.6 3.6 3.5 3.5 3.5 3.5 3.5 3.5	417 427 446 418 421 428 396 408 400 414 411 470 430 413	1 1 1 1 1 1 1	10130 10710 8820 10500 8140 8050 9200 8480 11420 12230	539 376 204 339 279 274 307 266 399 436	1 1 1	7548 10126 9450 10377	334 349 331 361 431
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	444 72 64 40 32 25 13 12 8 7 4 3 1	10800 11131 11501 10932 10842 11409 10688 10595 11494 10286 11493 13443 12480 11290	3.9 4.0 4.0 3.9 3.8 3.7 3.8 3.5 4.0 3.6 3.5 3.4	415 430 450 426 416 427 388 398 400 387 411 470 430 413	1 1 1 1 1 1 1 1	10130 10710 8820 10500 8140 8050 9200 8480 11420 12230	339 376 264 339 279 274 307 266 399 436	1 1 1 1	9548 10126 9450 10377	334 349 331 361 431
001	AYRSHIRE	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 84 209 375 519 713 860 902 914 761 727 776 173	9558 9974 9378 9361 9483 9170 9081 9481 9398 9619 9778 10046 9695	3.9 3.9 4.1 4.1 4.0 4.0 4.1 4.0 4.0	373 391 381 377 384 369 366 363 380 385 394 407 389	1 7 25 65 142 202 238 288 540 743	8070 9104 9715 9922 9655 9805 9917 9853 10010 10139	348 369 401 397 400 404 393 403 407	11 66 208 218 251 486 672 153	9178 8981 9231 9619 9720 9992 10304 10589	383 372 380 394 393 402 414 424
	GUEKNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	297 227 424 623 813 1030 1333 1621 1636 1329 906 525 412 74	7735 8071 8279 8043 8228 8411 8373 8294 8492 8403 8586 8921 7935	4.9 4.9 5.0 4.9 4.9 4.8 4.8 4.8 4.7 4.7	376 389 407 396 404 408 403 396 408 399 405 415 417 365	2 3 5 17 30 68 98 154 157 299 324 368 67	9115 8023 9776 9269 9257 9274 9091 9298 9166 9118 9017 8976 8440	406 400 482 449 451 442 434 443 419 418 411 370	13 15 150 141 283 292 312 52	9107 8646 8931 9176 9124 9132 9401 9547	444 402 426 430 428 426 433 428
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3223 2523 4132 5599 6968 8855 10866 12561 13727 13800 12385 13199 16069 2469	11312 11598 12161 11765 11733 11959 11889 11825 12038 12321 12745 12883 12475	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	402 414 438 424 423 431 429 426 440 436 445 464 471 454	2 10 31 75 150 309 617 1078 1611 24 98 4875 11067 15542 22 00	11225 11636 12725 12814 12375 12638 12458 12458 12917 12688 12634 12738 12745	411 425 400 457 451 461 452 473 461 458 463 464	1 1 77 218 1618 2333 4340 9568 12765 2072	14377 13178 13505 12031 11130 12133 12306 12275 12562 12994 13103	500 416 428 443 409 440 445 449 456 473

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

ราบบ	BREED	FRESHENING	RECORDS	MILK	TEST	FAT	305-DAY CUNTE	MILK	FAT	YEARLY F	MILK	FAT
	JEKSEY	YEAR 1947	NO. 5	LB. 5918	PCT.	LB.	NO.	LB.	LB.	NU.	LB.	LB.
		1948 1949	22 66	6226 7187	5.6 5.3	35 I 36 I	1	8010	500			
		1950 1951	184 349	7648 7571	5.3 5.4	404 403	3 7	7307 7749	384 406			
		1952	521	7560	5.3	399	13	7970	420		0.107	
		1953 1954	655 7 22	7718 7587	5.3 5.3	406 398	18 2 7	7579 7845	413 422	1 2	8186 7859	425 411
		1955 1956	688 598	7793 7769	5•2 5•2	405 401	24 30	8061 7628	431 402	2.9 4.3	7661 8087	396 419
		1957 1958	409 544	7918 7952	5.2 5.3	40년 418	90 230	8245 8172	421 423	92 2 71	3255 34 7 2	424 433
		1959 1960	588 97	7969 7519	5.3 5.3	418 393	394 56	8089 8296	418 428	368 69	8616 8773	438 437
E	BROWN SWISS	1952	24	9881	4.1	402	1	8240	351			
		1953 1954	95 152	9752 9790	4.2 4.2	404 407	3 14	10907 10065	474 431	2	9810	426
		1955 1956	220 270	9902 9466	4.2 4.2	410 399	20 31	10739 10695	450 442	17 28	10285 10426	420 421
		195 7 1958	277 475	9949 10754	4.2 4.2	417 454	52 160	10248 11122	423 460	51 206	10448	424 459
		1959 1960	517 132	1069 1 10569	4.2 4.1	462 437	319 76	110/1	464 418	548 102	11363 11341	464 463
	ALL BREEDS	1947 1948	3525 2776	11003 11204	3.7 3.7	399 411	2 13	11225 10969	411 428			
		1949 1950	4706 6615	11720 11225	3.8 3.8	434 420	34 84	12310 12380	454 455	1	14577 13178	500 416
		1951	8505	11122	3.8	419	181	11778	446	i	13505	428
		1952 1953	10949 13662	11294 11190	3.8 3.8	425 422	378 771	12004 11859	454 448	102	11313	437
		1954 1955	15916 17173	11106 11492	3.8 3.8	418 432	1359 2011	1:806 12248	444 462	303 2022	10509 1152 1	400 432
		1956 1957	16911 14 7 38	11418 11785	3.8 3.8	428 438	2954 5604	12205 122 1 1	454 452	2763 5017	11850 11877	440
		1958 1959	15470 18362	12243 12461	3.8 3.8	457 465	12321 17366	12415 12418	459 460	10o25 14465	12218 12646	452 468
		1960	2945	11949	3.8	446	2621	12026	445	2448	12675	471
002	GUERNSEY	194 7 1948	6 10	662 7 8163	4.4 4.5	291 366	3	10073	367			
		1949 1950	33 33	8376 7715	4.6 4.5	38⊀ 346	6 7	11443 11070	407 387			
		1951 1952	28 24	8175 8375	4.5 4.4	368 368	7 6	10651 10387	389 380			
		1953 1954	19 11	8143 8867	4.4	357 390	8	10159 10290	378 382	ų	10320	386
		1955	5	7386	4.6	331	i	10990	406	i	10159	374
	HOLSTEIN	1958 1947	91	17450	4.6 3.6	797 383						
		1948 1949	60 57	10814 11835	3.6 3.6	389 424	1	14340	472			
		1950 1951	51	11029	3.6	395	6	12328	442			
		1952	52 45	11792 11778	3.6 3.6	428 424	12 13	11743 12123	429 440			
		1953 1954	48 30	11078 11450	3.7 3.6	406 409	21 17	12088 11005	448 395	17	12110 11605	444 415
		1955 1956	21 14	12242 11271	3.5 3.5	42 7 393	14 10	11224 10789	411 393	15 10	10585 11260	385 407
		195 7 1958	8	12509 14943	3.4 3.3	425 501	6 3	11207 12617	4 14 465	6 3	11191 11870	409 423
		1960	i	13970	3.2	449	1	12940	469	ĭ	13135	487
	JERSEY	1947 1948	2 1	4550 4850	5.0 5.1	22 7 246						
		1949 1950	6	7595 8248	5.2	395 4 19						
		1951	8	6646	4.9	329						
		1952 1953	7	7730 7580	5.2 5.2	403 397						
		1954 1955	5 5	6422 7678	5.3 5.4	340 421						
		1956	1	9460	4.8	452						
	ALL BREEDS	1947 1948	99 71	10455 10356	3.6 3.7	3 / 4 383	4	11140	393			
		1949 1950	96 90	10381 9629	4.0	409 379	6 13	11443 11651	407 413			
		1951 1952	88 76	10173	4.0 4.0	400 405	19	11341	414 421			
		1953 1954	76 46	9930 10286	4.0	392 397	29 21	11556	429	2		444 409
		1955	31	10200	4.0	371	21	10007	392	21	11360	409

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR	RECOROS	MILK LB.	TEST PCT.	FAT LB.	305-DAY CUNT RECORDS NO.		AV. FAT LB.	YEARLY H RECORDS NO.	HERD AVE MILK LD.	RAGE FAT LB.
		1956 1957 1958 1960	15 1 8 1 5 1	11151 12509 15444 13970	3.6 3.4 3.6 3.2	397 425 560 449	10 6 3 1	10789 11207 12617 12940	393 414 405 469	10 6 3	11200 11171 11870 13135	407 409 423 487
003	GUERNSEY	1948 1949 1950 1951 1952 1953	1 4 3 3 2 2	7600 7388 6017 5900 5560 5610	4.0 4.6 4.5 4.5 4.3 4.4	305 339 264 261 240 243		11610 11120 10820 10180 10110	4 15 379 363 364 372			
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	364 1413 1463 1448 1434 1347 158 163 1	10936 11219 12150 11878 12069 12472 12157 12049 12823 12789 12852 12951 12611 11890	3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	382 393 426 417 420 440 420 450 450 441 441 433 416	11 36 52 75 98 127 157 115 80 41 32 24 14	10845 11003 11611 11726 11902 12104 11548 11270 12082 12521 12007 12229 11714 12260	391 398 415 422 433 434 411 445 445 443 443	31 103 73 39 25 20 13	11445 11426 11387 12255 11131 12474 11948 14116	421 418 421 454 409 453 439 523
	JEKSLY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	10 6 5 11 14 13 17 14 13 13 8 6	7/83 8672 7152 79/2 77/3 7194 8179 9304 8005 8782 7923 8395 9590 7540	4.5 5.5 5.2 5.3 5.4 5.4 5.4 4.8	354 431 392 416 408 386 449 506 424 479 419 454 459 362	2 1 2 1 2 3	11370 11890 9500 10820 10220 9340	594 600 513 559 540 432	1 1 2 1 2 3	10987 11369 9064 9221 9925 10664 7852	582 603 479 471 520 545
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	371 1 422 477 465 1 489 1 366 1 711 1 94 1 40 1 16 1 16 1 16 1 16 1 1	10342 111168 12046 11751 11900 12289 11936 11899 12457 12235 12297 12267 12422	3.5 3.6 3.6 3.6 3.6 3.7 3.7 3.7 3.7	382 394 425 416 423 437 428 425 448 444 446 443 435 398	11 36 53 76 99 128 160 110 62 42 34 27	10845 110c3 11611 11718 11891 12069 11537 11276 12019 12481 11906 11908 11714 11363	391 398 415 422 432 433 413 400 449 452 432 465	32 104 75 40 27 23 15	11430 11426 11325 12179 11042 12255 11948 11974	426 420 423 455 418 465 439 508
004	HOLŠTEIN	1953 1954 1955 1956 1957 1958 1959	82 1 116 1 98 1 70 1 66 1 72	12436 11080 11236 11751 12008 12083 12252	3.8 3.8 3.8 3.8 3.8 3.8 3.7	471 419 424 442 448 453 452 441	3 15 34 27 30 53 53 69	13927 12104 11934 13040 13412 12426 12640 13357	548 445 437 486 505 464 462 461	2.1	13705 11354 11974 12398 12105 12359 13949	512 419 436 454 453 461 507
	ALL BREEOS	1953 1954 1955 1956 1957 1958 1959	82 116 1 98 1 70 1 66 1	12436 11080 11236 11751 12008 12083 12252	3.8 3.8 3.8 3.8 3.8 3.8 3.8	471 419 424 442 448 453 452 441	3 15 34 27 30 55 69	13927 12104 11934 13040 13412 12426 12040 13357	548 445 437 486 565 464 462 461	27 20 29 49 61	13705 11354 11974 12393 12135 12369 13949	512 419 436 454 453 461 507
005	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955	11 45 108 153 167 170 132	13810 13577 13207 11961 12095 12685 12799 12545 12960	3.5 3.4 3.5 3.6 3.5 3.5 3.5	477 455 449 422 429 447 451 444	1 3 4 11 16 17	13460 12460 13823 13914 13433 13739	513 451 499 497 485 493	2 1 17	12959 13396 12603	498 538 454

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	GROUPE	ים ועטוג זם ע:	DREED, DT TLAK	UF FK	COULINIAR						
STUU	BREED	FRESHENING YEAR 1957 1958 1959 1960	RECORDS MILK NO. L8. 57 14221 41 15221 31 14658 7 13751	TEST PCT. 3.5 3.5 3.6 3.6	FAT LB. 498 526 521 488	305-DAY CUNT RECORDS NO. 18 29 26 6		AV. FAT LB. 534 496 507 474	YEARLY RECORDS NO. 17 24 23		ERAGL FAT LB. 492 488 526 492
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1759	1 13810 11 13577 45 13207 108 11961 153 12095 167 12685 170 12799 132 12545 117 12960 94 13243 57 14221 41 15221 41 15221 31 14658 7 13751	3.5 3.4 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	477 455 442 422 449 441 454 468 498 526 521	3 4 11 12 17 18 18 16 29	13460 12460 13823 13914 13433 13739 13848 14906 14033 13000	513 451 497 485 493 499 534 496 507 474		12939 13396 12603 12347 13691 13462 14513 13611	498 538 454 451 492 468 526 492
006	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955	17 8625 6 7777 4 7830 2 9665 3 9050 1 8460 2 9330 2 9350 1 11550 1 10000	5.0 5.0 4.8 5.0 4.9 5.3 5.4 4.9 4.6	430 390 317 482 441 448 499 450 530 455						
	HOLSTLIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	42 10628 8 11514 11 12391 12 12771 19 13247 22 13575 14 12147 13 13162 12 12944 5 13132 2 11390	3.7 3.8 3.7 3.6 3.5 3.5 3.5 3.5 3.5	392 434 465 471 470 478 423 461 461 466 379	1 1 2 2 1 1 1	12130 10110 13045 12375 9130 972D 12160 13440	457 374 473 495 358 356 426 510	1 1 2 1	15533 11816 11614 12993 13865	576 451 425 459 492
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	59 10051 14 9912 15 11175 14 12327 22 12675 23 13352 16 11795 15 12671 13 12837 6 12610 2 11390	4.1 4.3 4.1 3.9 3.8 3.6 3.7 3.7 3.6 3.7	403 415 441 472 466 477 433 460 464 379	1 1 2 2 1 1	12130 10110 13045 12875 9150 9720 12180 13440	457 374 473 495 358 356 426 510	1 1 2 1	15533 11816 11614 12993 13865	576 451 425 459 492
007	GUERNSEY	1948 1947 1948 1949 1950 1951 1952 1953 1954	1 7440 52 10903 13 11041 14 11709 10 11847 5 12466 3 10813 2 10360 2 14695 2 12925	4.5 3.6 3.5 3.5 3.7 3.8 3.8 4.0 4.0	335 391 387 411 418 461 407 388 594 513						
	JERSEY	1947 1948 1949	4 4788 1 5630 1 7820	6.1 5.9 6.5	294 331 5D9						
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954	56 10466 15 10440 15 11450 10 11647 5 12466 3 10813 2 10360 2 14695 2 12925	3.8 3.7 3.7 3.5 3.7 3.8 3.8 4.0	384 380 416 416 461 461 407 388 594 513						

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING CREANIZATIONS--GROUPEO BY STUD, BY BREED, BY YEAR OF FRESHENING

STUO	8REE0	FRESHENING YEAR	RECUROS NO.	MILK L8.	TEST PCT.	FAT LB.	RECORI NO.	DS		FAT LB.	YEARLY F RECORDS NO.		FAT LE.
000	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954	3 2 4 3 1	7454 7356 8133 9505 8843 10107 11460 9130 8570	4.6 4.8 4.7 4.4 4.0 4.8 4.6	382 465 552		1	11520 9330 10150	518 456 490			
	HOLSTEIN	1947 1948 1949 1950 1951	4 4 3	11711 12210 11220 13300 15390	3.8 3.8 3.5	425 457 418 463 536							
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954	7 5 5 3 1 1	8931 8974 9897 11782 10152 10107 11460 9130 8570	4.3 4.2 4.0 4.2 4.6 4.8	379 377 406 455 412 465 552 425 363		1	11520 9330 10150	518 456 490			
001	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	10 31 30 53 99 107 110 97 67 39 24	7609 7545 8609 8641 8459 8569 8272 8200 8252 8566 8782 8704 9170 9940	5.0 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	364 380 408 411 400 408 395 38d 399 412 415 416 422 473	3 3 3 2 2 2	5 8 4 3 2	10410 9907 11364 11123 11098 10735 11328 11070 9513 8996 10062	475 513 471 457 456 459 487 484 433 416 455	32 33 32 22 10 16	10881 11190 9965 10723 10311 9519 9185 16206	444 445 431 463 457 450 417 491
	HULSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	113 129 212 309 420 517 608 766 687 642 710 944	11370 11859 12574 12310 11972 12064 12173 12214 12264 12287 12657 12683 12683 13002	3.6 3.7 3.7 3.8 3.8 3.8 3.8 3.8 3.8 3.8	411 431 461 458 444 452 457 461 465 464 476 477 480 497	1 2 3 8 12 15 17 17 21 42 87	9 6 5 7 6 2 9 7 8 1 3 0	11974 12697 12431 13408 12753 12212 12269 12383 12559 13295 13458 13160 12843 13222	443 463 471 491 474 458 465 471 478 504 506 493 482 500	107 176 183 195 377 839	11494 12153 11861 12532 12686 12413 12650 12601	443 465 454 478 483 465 477 483
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	4 3 2 2 6 3 5 5 6 4 4 2	8483 7997 9520 7565 7645 7597 6992 8124 7637 9043 7808 5915	4.9 5.0	492 396 472 445 417 404 366 407 370 481 386 277							
8	BROWN SWISS	1952 1953 1954 1955 1956 1957 1958 1959	4 3 1 6 2 1 1 3	10558 11180 13610 11395 11315 11320 12250 11130	4.3 4.3 4.0 4.2 4.2 4.0 3.9	450 475 544 480 471 456 475 461		2	7105	294	1	7761	319
	ALL BREEDS	1947 1948 1949 1950 1951 1952	196 120 141 245 345 480	11177 11619 12249 11607 11595	3.7 3.7 3.8 3.9 3.8	411 429 458 452 440	1 2	9 6 7	11974 12677 12431 13186 12540	463 463 471 490 477			(

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF STRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	Day 6 D	ence with the	115501105	M 7.1 ×	7117	5 A T	305-DAY CONTE			YEARLY I		
STUD	BREED	FRESHENING YEAR 1953 1954 1955	RECORDS NO. 624 721 888	MILK LB. 11507 11591 11730	TEST PCT. 3.9 3.9 3.9	FAT LB. 44/ 450 456	RECORDS NO. 157 197 211	MILK LB. 12013 12135 12265	FAT LB. 463 468 475	RECORDS NO. 107 139 211	MILK LB. 11334 11931 11564	FAT LB. 444 461 450
		1956 1957 1958 1959 1960	790 714 752 971 213	11811 12265 12458 12591 12930	3.9 3.8 3.8 3.8	458 470 473 478 497	212 234 445 591 186	12979 13223 12980 12748 13137	501 504 490 480 499	215 217 395 856 170	12263 12445 12281 12579 12756	476 481 464 476 483
002	HOLSTEIN	1955 1956 1957 1958 1959 1960	3 20 40 51 34 3	12957 14135 13238 13396 13334 16567	3.8 3.8 3.8 3.8 3.8 3.8	488 536 497 505 503 630	2 18 38 40 34 2	11830 13949 13571 13175 13494 17910	446 519 512 510 493 660	3 15 35 33 30	13156 14098 13523 12667 13265	462 530 516 487 489
	ALL 8REEOS	1955 1956 1957 1958 1959 1960	3 20 40 51 34 3	12957 14135 13238 13396 13334 16567	3.8 3.8 3.8 3.8 3.8	488 536 497 505 503 630	2 18 38 40 34 2	11830 13949 13571 13175 13494 17910	446 519 512 510 493 660	5 15 35 33 30	13156 14098 13523 12667 13265	462 530 516 487 489
003	GUERNSEY	1947 1948	213 72	7839 8273	4.6	359 377	1	8860	403			
		1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	102 101 143 182 263 307 298 288 232 164 141	8664 8461 8505 8028 8080 8411 8164 8406 8780 8852 8954	4.7 4.8 4.7 4.7 4.9 5.0 4.9 4.9	406 402 396 379 388 413 409 412 432 437 412	4 5 17 17 31 31 34 41 56 64 105	10105 8824 9884 8579 9330 9041 9102 9373 9631 9543 9785	457 408 434 406 438 429 431 457 454 447	13 15 27 26 39 47 89	9284 9369 9076 8950 9530 9458 10031 10772	411 450 424 426 435 434 445 454
	HOLSTEIN	1960 1947	1137	8361 11396	4.9 3.7	416	2	9540 13040	436 486	16	10112	434
		1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	374 481 571 677 901 1131 1397 1552 1346 1231 1248 1830 409	11693 12165 11811 11919 11942 11908 12242 12190 12148 12679 12495 12548 12350	3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	428 450 439 440 443 440 452 453 450 469 463 460	5 11 20 41 71 133 164 245 250 289 644 1656 374	15704 13170 12528 12200 12428 11863 12080 12161 12755 12979 12597 12434 12148	476 476 459 464 446 455 463 481 490 471 463	65 106 215 242 285 582 1496 328	11615 11462 11704 12324 12459 12386 12335 12241	437 432 443 465 471 465 459
	JEKSEY	1947 1948 1949 1950	18 15 32 40	7641 7361 7919 7559	5.2 5.3 5.0 5.2	394 393 391 392	1 1 1	10070 9430 11300	498 491 620			
		1951 1952 1953 1954 1955 1956 1957 1958 1959	49 60 62 42 24 20 35 51	7830 7815 8210 8979 8274 8443 8257 9145 9790 9732	5.1 5.2 5.0 5.0 5.2 5.1 5.0 4.9 5.0	395 400 410 447 425 432 413 447 487	1 2 2 2 1 1 2 10 26 4	8790 9680 7745 9120 8560 8405 9218 9528 9213	483 454 384 439 346 444 460 473 457	1 1 2 3 11 33 2	7641 8153 7543 6093 8453 10007 9145	414 439 412 308 434 489 451
8	KOWN SWISS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 5 7 30 43 67 95 159 82 137 120 89 91	10082 10524 10119 10704 10444 10231 9927 10168 9929 10165 11134 10753 9774	3.9 4.0 4.0 3.9 4.0 4.1 4.1 4.2 4.1 4.2 4.1	395 423 412 425 410 407 415 404 425 406 421 469 452 408	1 1 4 5 14 10 17 19 32 48	13190 12900 9545 11320 10990 10352 10335 10017 10748 10391 9457	537 528 405 448 446 445 422 405 448 428 384	2 3 11 10 30 51 13	9593 10791 9952 10410 10489 10516 11030 9889	383 440 423 438 432 437 454
	ALL 8REEDS	1947 1948	1373 466	10790		407	ц	11253	468			

TABLE 10.--AVERAGE OF THE RECUROS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREELING UKGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	31.00. 2	.0 0. 3,00, 0.	DALLES, D.									
STUD	BREEO	FRESHENING	RECOROS	MILK	TEST	FAT	305-DAY CUNT		FAT	YLARLY RLCORDS		FAT
		YEAR	NO.	L8.	PCT.	LB.	NU.	Lb.	LB.	NU.	LG.	LD.
		1949	622 1	1350	3.9	439	16	12287	483			
		1950		1081	4.0	431	26	11341	465			
		1951		11094	3.9	429	59	11544	453			
		1952		11056	4.0	429	93	11561	451			
		1953		1001	4.0	429	171	11363	444	81	11142	431
		1954		11334	4.0	442	231	11568	450	125	11117	435
		1955		11415	4.0	444	291	11720	459	∠55	11318	440
		1956		11328	4.0	441	309 366	12159 12288	474 480	∠79 337	11934 12005	460 464
		1957 1958		11871 1 1 950	3.9 3.9	459 459	750	12212	468	670	12033	461
		1959		12164	3.9	465	1835	12188	461	1669	12127	459
		1960		11467	3.8	455	416	11878	451	359	12073	455
0.01	0.150.15511											
004	GUERNSEY	1947 1948	2	6375 7370	4.9 4.8	313 354						
		1949	4	75.3	4.9	367						
		1950	10	8290	4.8	395						
		1951	8	7970	4.7	376						
		1952	15	7047	4.8	339						
		1953	12	7601	5.0	378						
		1954	7	7949	5.0	390						
		1955	6	7428	4.9	362						
		1956	5	9316	4.9	451	1	10600	500			
		1957	2	7325	4.9	363						
	HOLSTEIN	1949	6 1	12120	3.7	443						
		1950		10354	3.7	38/						
		1951		10704	3.8	403						
		1952		11158	3.7	407						
		1953		11298	5.6	404						
		1954	7	11594	3.5	409						
		1955		11687	3.6	421						
		1956	3 1	12197	3.4	419						
f	BROWN SWISS	1949	3	7607	4.3	324						
		1950	3	7617	4.3	329						
		1951	3	7767	4.1	310						
		1952	1	6550	3.6	238						
		1954	1	8260	4.2	344						
	ALL BREEDS	1947	2	6375	4.9	313						
		1948	1	7370	4.8	354						
		1949	13	9673	4.2	392						
		1950	24	9152	4.2	383						
		1951	19	9089	4.2	378						
		1952	28	8791	4.3	365						
		1953	21	9185	4.4	389						
		1954	15	9671	4.2	396						
		1955	12	9558	4.2	391						
		1956	8 1	10396	4.4	439	ı	10600	500			
		1957	2	7325	4.9	363						
005	GUERNSEY	1951	2	9625	4.2	40 I						
		1952	5	8986	4 - 1	367						
		1953	8	9068	4.2	381						
		1954	5	9030	4.3	389	1	8700	413	1	7652	365
		1956	4	9018	4.4	391						
		1957	1 1	10970	4.2	460						
		1958 1959	i	8770 8390	4.1	362 350	1	7590	3 5 I			
	ALL BREEOS	1951	2	9625	4.2	401						
		1952	5	8986	4 - 1	367						
		1953	8	9068	4.2	186	1	8700	1. 1.7		7150	7.15
		1954 1956	5 4	9030 9018	4.3 4.4	389 391	'	0100	413	1	7652	365
		1957		10970	4.4	460						
		1958	i	8770	4.1	362						
		1959	i	8390	4.2	350	1	7590	351			
006	GUERNSEY	1947	8	8495	4.9	416 35h						
		1948 1949	33 58	7363 7606	4.8	354 370	1	10570	5∠5			
		1950	65	8076	4.8	388		7570	342			
		1951	67	8083	4.8	386	i	8720	377			
		1952	59	8484	4.8	403	i	11930	474			
		1953	67	8149	4.9	393	4	9523	438			
		1954	85	8258	4.8	396	6	9277	412	2	11271	432
		1955	61	8614	4.8	415	5	9564	421	ь	8633	393
		1956	4.1	8329	4.8	399	12	9384	421	12	8887	416
		1957	36	8302	4.8	398	8	9584	421	8	9607	412
		1958	21	8677	4.8	410	11	9416	434	6	9212	431
		1959 1960		11676	4.8	503 308	7 4	9196	403	6	8560	369
		1700	4	8285	4.7	398	4	9938	445	2	9756	413

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD BREED	FRESHENING YEAR	RECORDS MILE		FAT L8.	305-DAY CONTI RECORDS NO.		AV. FAT LB.	YEARLY F RECORDS NO.		ERAGE FAT LB•
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 10538 15 1098 52 1147 107 1156 105 1175 173 11708 168 1194 153 1187 144 1177 100 11580 87 1203 65 11770 69 1153	3.5 3.5 3.5 3.6 3.6 3.6 3.6 3.6 3.5 3.5	387 378 397 407 410 421 427 430 425 407 436 408 366	1 6 6 0 5 3 35	12630 14210 14340 12937 12272 13867 13602 13790 111981 11365 11731	435 542 521 467 434 496 496 496 436 414	2 5 4 4 3 3 6 4 17	11767 12533 12511 11560 11995 11388 12031	423 456 464 429 437 418
JEKSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 6810 3 6590 5 7481 4 7455 5 8600 7 907 8 925 5 8371 3 8401 1 12010 3 7100	5.6 5.6 5.6 5.1 5.1 5.1 4.9 7 5.4 4.9	379 388 412 446 451 460 463 409 452 569 299 802	1 2 3	9980 10605 7083	532 545 376	i 2 3	9036 10301 10355	472 537 542
8KOWN SWISS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 15500 3 11877 1 7194 6 10133 5 12546 3 1180. 10 11822 7 1248. 1 13016 2 12766 1 10456 3 10896 1 12366	4.1 4.3 3.9 3.6 3.7 4.0 3.8 4.0 4.5	600 409 312 391 452 436 470 497 480 423 4863 556	2 1 1	11350 11260 11200	188 181 191	2 1	10955 11020	482 492
ALL 8KEEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	15 10110 51 8695 113 9366 181 1018 182 10300 239 1085 250 1085 252 1059 214 1078 148 1058 127 1088 90 1102 84 1140,	4.4 4.2 4.1 4.0 3.9 4.0 4.0 4.1 4.0 3.9 4.0 4.1 4.0 4.0 4.0 4.1 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	431 369 382 399 402 417 420 421 424 406 423 418 445		10570 10100 111405 13858 11571 10774 11911 10642 10751 11376 11141 10868	525 389 460 512 456 423 462 444 441 440 417	13 16	11519 10133 9793 16258 11374 11121 11596	427 417 428 417 439 418 455
007 GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	220 744 53 766 47 802: 44 774 23 905: 16 870: 11 813: 9 811: 7 898: 2 912: 4 974: 6 818!	6 4.8 7 4.8 7 4.8 9 4.8 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14.9	366 367 382 374 434 422 402 380 417 417 435 377 527	1 2 2 1 2 2 1 3 1 2 2	9610 9105 8360 8730 7845 7620 8770 8703 9250 8290 8895	414 444 405 418 392 377 421 425 458 409 433	1 1 3 1 4	9167 8469 9131 9821 9031 8813	450 399 446 482 427 435
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954	48 967 17 1106 12 1196 9 1162 8 1044 4 1237 4 1236 1 1207	3.6 3.7 3.7 3.6 3.4 3.3 3.3	379 400 441 421 373 414 412 468 383						
ALL BREEDS	1947 1948 1949	268 7843 70 849 59		369 375	1	9610	414			

23 TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF STRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

C 71111	DOM: A D	F							ILRE AVE	
STUD	BRELD	FRESHENING	KECOROS	MILK	TEST	FAT		CURDS		FAT
		YLAR	NO.	Lb.	PCT.	LB.	NO. L8. LE.	MO.	Lů.	LB.
		1950	53	8406	4.6	382	2 8360 405			
		1951	31	9415	4.5	413	1 8730 418			
		1952	20	9437	4.6	420	2 7845 392			
		1953	15	9261	4.5	405	2 7620 377	1	1167	450
		1954	10	8508	4.0	369	1 8770 421	1	8469	399
		1955	8	9400	4.5	413	პ 8703 425	3	9131	446
		1956	2	9120	4.6	417	1 9250 458	1	₹82 1	482
		1957	ł	9740	4.5	435	2 8290 409	2	9031	427
		1958	6	8180	4.6	377	2 8895 433	4	ಕರ 13	435
		1959	1	10160	5.2	527				
008	GUERNSEY	1947	3	7227	4.8	348				
		1948	9	7522	4.1	365				
		1949	5	7462	4.9	392				
		1950	4	8215	4.9	403				
		1952	1	9570	4.5	427				
		1954	2	8160	4.8	388				
	HULSTEIN	1948	1	11860	3.5	415				
	1102312111	1949	2	11295	3.2	363				
		1950	1	12390	2.9	303				
		1951	i	12230	3.0	366				
		1954	i	14310	2.7	387				
	JERSEY	1947	1	9/90	5.7	558				
	SERSET	1948	2	7760	5.5	423				
		1949	3	8273	5.8	480				
		1950	2	8470	5.5	466				
		1951	1	7960	5.4	428				
		1952	i	9540	5.1	483				
		1953	2	7880	5.3	416				
		1422	1	7050	4.8	341				
		1955	i	8040	4.8	388				
		1956	i	6420	5.0	320				
	ALL SUESES									
	ALL BREEDS	1947	4	7868	5.1	401				
		1948	12	7923	4.9	379				
		1949	10	8732	4.8	413				
		1950	7	8884	4.3	415				
		1951	2	10095	4.2	397				
		1952	2	9555	4.8	455				
		1953	2	7880	5.3	416				
		1954	4	9420	4.3	376				
		1955	1	8040	4.8	388				
		1956	1	6420	5.0	320				

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING UKGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REE0	FRESHENING YEAR	RECOROS NO.	MILK	TEST PET.	FAT LB.	305-DAY CONT RECORUS NO.	EMPORARY MILK LB.	AV. FAT L8.	YEARLY F RECORDS NO.	HERD AV MILK L8.	ERAGE FAT L8.
000	GUERNSEY	1951 1952 1953 1954 1955 1956 1957	2 2 3 4 4 3 1	6345 6735 6367 6875 6858 8217 8810 8980	5.3 5.1 4.9 4.9 5.1 5.0 4.6	335 344 310 331 344 408 408	1 2 3 4 4 3 1	9850 9420 8447 8555 7605 8837 8530	380 362 345 344 359 384 439	1 4 4 5	8673 8652 7706 9665 7456	382 354 363 426 380
	HOLSTEIN	1957 1958 1959	1 1 1	12180 7360 11110	4.0 3.9 3.6	483 285 404	1 1 1	9570 9980 9410	367 382 346	1 1	9777 10813	380 405
	JERSEY	1951 1952 1954 1958	1 1 2 1	7730 7150 8490 9830	5.2 5.2 5.5 4.9	399 369 460 480	1	7040	316	1	8393	450
	ALL BREEDS	1951 1952 1953 1954 1955 1956 1957 1958	3 3 3 6 4 3 2 3	6807 6873 6367 7413 6858 8217 10495 8723	5.2 5.1 4.9 5.1 5.1 5.0 4.3 4.4 3.6	356 352 310 374 344 408 446 391 404	1 3 3 4 4 3 2 1	9850 8627 8447 8555 7605 8837 9050 9980 9410	360 346 345 344 359 384 403 382 346	1 4 3 1 2	8873 8652 7706 9665 7456 9085 10813	382 354 363 426 380 415 405
001	HOLSTEIN	1954 1955 1956 1957 1958 1959	1 6 6 20 52 115 24	17090 12600 16832 12396 13472 14201 13727	3.4 3.9 4.0 3.8 3.9 3.9	579 495 677 467 519 552 544	5 6 20 48 114 22	13336 16513 12448 12657 13204 12628	491 624 469 483 508 490	1 6 0 20 43 112 22	17069 14599 16241 12374 13635 13577	686 539 620 470 520 523 553
	ALL BREEDS	1954 1955 1956 1957 1958 1959	1 6 6 20 52 115 24	17090 12600 16832 12396 13472 14201 13727	3.4 3.9 4.0 3.8 3.9 3.9	579 495 677 467 519 552 544	5 6 20 48 114 22	13336 16513 12448 12657 13204 12628	491 624 469 483 508 490	1 6 6 20 43 112 22	17069 14599 16241 12374 13635 13577	686 539 620 470 520 523 553
002	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	29 65 121 180 223 304 360 383 347 257 341 382 333 97	7931 7684 8205 7762 7684 7660 7769 7928 7999 7799 7633 7861 7449	5.0 4.8 4.9 4.8 4.8 4.7 4.7 4.7 4.6 4.6 4.6	396 365 397 3/4 370 364 363 372 374 368 356 356 356 335	6 8 18 59 92 180 328 370 332 245 334 341 329 91	8148 9743 9721 9080 9345 8904 8837 9092 9210 9071 9149 8882 9041 8712	398 433 450 416 416 394 389 404 395 391 378 381 364	121 327 296 231 301 323 317	8835 8850 9154 9184 8624 9810 9618 10139	406 390 405 411 384 418 410 429
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	303 421 851 1273 1689 2231 2795 2968 2773 2227 2774 3888 5362 1579	11596 11603 11708 11316 11456 11466 11235 11387 11869 11661 11709 11903 12161 11872	3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	421 424 433 421 425 427 416 423 442 431 431 438 447	23 63 199 440 842 1514 2584 2876 2716 2166 2722 3653 5337 1519	12523 12456 12127 11665 11755 11580 11198 11387 11834 11593 11606 11728 11945	432 444 436 438 431 416 426 443 434 432 436 442	638 2674 2530 2047 2461 3557 4984 1536	11142 11319 11599 12122 11411 12184 12418 12701	423 420 433 453 455 460 471
	JERSEY	1948 1949 1950 1951 1952 1953 1954	12 27 21 18 13 13 7	6767 7732 7277 7070 7175 6726 6363 3860	5.7 5.4 5.4 5.5 5.6 5.3 5.3	382 420 392 388 404 358 339 188	5 5 6 6 8 6	8284 7238 7670 7610 7046 6845 4140	448 401 419 422 378 381 209	1 6	6595 7022	374 385

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	GROUPE	0 8Y STUD, 8Y	SREED, E	Y YEAR	OF FR	ESHENING						
STU0	8REE0	FRESHENING YEAR	RECOROS NO.	MILK L8.	TEST PCT.	FAT LB.	305-DAY CONT RECORDS NO.		AV. FAT LB.	YEARLY : RECURUS NO.		FAT L8.
	ALL 8REEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	332 498 999 1474 1930 2548 3168 3358 3120 2484 3116 4270 5695 1676	11276 10975 11177 10825 10979 10990 10822 10982 11462 11282 11278 11521 11909 11616	3.8 3.9 3.9 3.9 3.9 3.8 3.8 3.8 3.8 3.8	419 416 425 415 419 419 417 435 425 423 430 442 429	29 71 222 504 940 1/00 2920 3252 3048 2411 3057 3994 5666 1610	11618 12151 11846 11319 11493 11282 10921 111117 11549 11337 11335 11485 11776 11603	425 442 445 433 436 427 413 422 439 430 427 431 439 431	760 3007 2826 2278 2762 3680 5301 1632	10769 11042 11343 11824 11108 11975 12250 12551	420 417 430 449 424 452 457 469
003	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	1 7 11 9 6 8 2 3 3 2	4950 8037 8157 7012 6497 7164 7405 7687 7567 7860 8080	4.7 4.7 4.6 4.7 4.7 4.6 4.6 4.7 4.7 5.2	232 379 373 328 307 330 344 361 360 408 356	1 1 1 2 2 2 3 3 3 2	9640 9650 9460 9075 9040 10090 8853 8600 9370	418 403 402 385 341 382 370 400 382	3 3 2 1	9505 9418 9243 9156	373 381 403 401
	HOLSTEIN	1953 1954 1955 1956 1957 1958 1959	1 22 29 23 20 16 9	9280 11094 11633 12413 11937 12541 14040 10055	3.3 3.6 3.6 3.6 3.6 3.7 3.7	308 396 419 449 427 446 522 375	1 1 4 2 7 11 9 2	7870 12150 12975 13180 12531 12323 12696 11485	252 387 444 489 433 466 468 430	4 4 7 16 8 2	10560 11333 10955 12304 12152 12067	399 427 405 466 453 451
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 7 11 9 6 8 3 25 32 25 21 16 9	4950 8037 8157 7012 6497 7164 8030 10685 11252 12048 11753 12541 14040 10055	4.7 4.6 4.7 4.6 4.7 4.6 4.2 3.7 3.7 3.7 3.6 3.6	232 379 373 328 307 330 332 392 414 446 424 446 522 375	1 1 2 3 4 7 4 8 11	9640 9650 9460 9075 8650 10605 11209 10890 12136 12323 12696 11485	418 403 402 385 311 383 412 445 426 466 468 430	3 7 6 8 10 6	9505 10070 10637 10730 12304 12152 12067	373 391 419 404 466 453 451
004	AYRSHIRE	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	7 62 99 140 163 162 134 98 128 186 185 98	9593 8805 8522 8743 8670 8590 9059 9065 8717 8985 8872 8569	4.1 4.3 4.3 4.3 4.2 4.2 4.2 4.2 4.2 4.2	397 380 367 374 373 363 382 385 365 365 369 359	2 13 33 75 154 152 125 89 108 167 184	8445 9498 9288 9000 9038 8916 9247 9385 9294 9724 9098 8808	389 407 396 378 378 372 383 383 376 400 366 353	67 125 114 79 95 143 173 98	8914 8920 9161 9374 9349 9502 9448 9857	378 372 378 389 378 388 383 397
	GUÉRNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 60 156 260 319 460 594 621 562 398 402 385 295 82	8245 7701 8184 8161 8228 7961 7886 8087 8429 8227 8000 7899 7793 8170	4.6 4.7 4.8 4.7 4.8 4.7 4.7 4.8 4.8 4.8 4.8	378 357 387 381 391 375 370 381 403 389 379 376 366 380	1 8 38 69 161 292 517 534 379 393 317 290	9910 9256 9218 9145 94418 8937 8705 8771 8989 8813 9064 86405 8146	496 443 430 413 420 598 386 397 415 408 416 399 380 375	181 525 498 358 321 308 261 80	8391 8762 8677 8999 8805 9071 9058 9041	384 396 400 422 410 416 414
	HOLSTEIN	1947 1948 1949 1950 1951 1952	15 245 790 1443 2004 2729	10436 10652 11413 11103 11271	3.7 3.6 3.7 3.7 3.7	384 386 416 407 415	2 37 179 510 959	12470 11288 12031 11940 11774	505 402 439 438 435			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

C.T.110	aarra	FOREHENING	u E C O u D S	MILLE	TEST	FAT	305-DAY CONTI	MPORARY MILK	AV. FAT	YEARLY RECORDS	HERD AV	ERAGE FAT
STUD	8REED	FRESHENING YLAR 1953	RECORDS NO. 3407	MILK L8. 11348	PCT.	LB.	NO. 3096	L8. 11343	LB. 421	NO. 953	LB. 11289	LB. 420
		1954	3625	11455	3.7	426	3459	11420	425	3206	11341	421
		1955 1956	3730 2789	11950 11835	3.7 3.8	446 444	3568 2675	11962 11762	448 443	3338 2490	11490 12179	428 460
		1957	3568	11918	3.7	445	3455	11845	445	3087	11698	442
		1958	5292	12355	3.8	465	4933	12137	457	4486	12367	466
		1959	7427	12348	3.8	466	7372	12110	456	6782	12691	479
		1960	1891	11835	3.8	448	1814	11760	445	1819	12742	483
	JERSEY	1948 1949	22 66	8224 8122	5.4 5.6	443 449	6 19	8007 8852	452 504			
		1950	89	8159	5.4	442	24	8270	468			
		1951	126	8064	5.3	429	43	8147	457			
		1952 1953	231 286	7824 7540	5•3 5•3	417 399	92 160	7948 7734	437 418	83	7726	422
		1954	251	7586	5.3	402	126	7680	415	120	7897	426
		1955	170	7632	5.3	404	81	8103	434	7.7	7954	433
		1956 1957	106 124	7493 7528	5.3 5.2	394 391	47 56	7931 7422	432 395	54 66	8153 7333	44 1 384
		1958	213	7457	5.3	395	79	7841	419	. 77	ช075	438
		1959	138	7147	5.3	375	19	7823	417	74	8245	448
		1960	71	6703	5.3	355	41	7489	399	41	8627	467
	ALL BREEDS	1947 1948	19 327	9975 9947	3.9 3.9	383 385	3 51	11617 10583	502 4 1 4			
		1949	1019	10693	4.0	413	230	11298	442			
		1950	1854	10472	3.9	405	636	11361	435			
		1951 1952	2548 3560	10624 10562	3.9 4.0	411 413	1196 2236	11258 11054	432 426			
		1953	4450	10502	4.0	411	3707	10767	415	1284	10526	413
		1954	4659	10698	4.0	410	4328	10862	419	3976	10820	416
		1955	4596	11275	3.9	438	4308	11442	442	4027	11009	424
		1956 1957	339 1 4222	11195 11319	3.9 3.9	434 435	3190 4012	11289 11442	437 439	2981 35 6 9	11650 11295	453 436
		1958	6076	11798	3.9	454	5496	11802	451	5014	12017	460
		1959	8045	12012	3.8	458	7925	11862	451	7290	12439	474
		1960	2142	11376	3.9	438	2027	11416	437	2036	12375	476
005	AYRSHIRE	1955 1956	10 7	8317 8606	4.3 4.4	359 379	8 7	9128 9314	3 77 398	7 6	9326 9643	372 407
		1957	17	7948	4.2	329	16	8796	363	12	8120	333
		1958	38	8954	4.1	368	36	9939	400	31	10299	412
		1959 1960	40 28	875 6 83 59	4.2 4.1	368 343	39 28	9499 9356	383 375	36 25	9975 9764	402 403
	alienseen.						20	4330	213	2.5	7104	403
	CUERNSEY	1947 1948	16 122	8033 7589	4.8 4.8	385 366	13	8121	391			
		1949	431	7932	4.9	388	82	9122	429			
		1950	642	7535	4.9	370	190	8701	415			
		1951 1952	849	7431	4.9	362	373	8310	390			
		1953	1216 1393	7515 7415	4.9 4.9	368 363	766 1286	8355 8147	391 379	372	8430	396
		1954	1489	7738	4.9	380	1456	8471	394	1346	8343	391
		1955	1279	7867	4.9	386	1244	8617	403	1142	8548	402
		1956 1957	816 812	7768 7652	4.9 4.8	379 368	790 793	8578 8538	399 389	747 724	8822 82 14	419 387
		1958	896	7733	4.8	371	799	8713	392	739	8918	404
		1959	797	7806	4.8	370	794	8639	382	74.1	9353	421
		1960	226	7990	4.7	372	218	8690	384	217	9430	423
	HULSTEIN	1947 1948	1 129	10080 11104	3.6 3.6	362 397	11	11144	402			
		1949	455	11567	3.6	416	84	12635	453			
		1950	775	11374	3.7	416	237	11898	432			
		1951 1952	1062 1837	10988 11211	3.7 3.7	400 411	495 1226	11330 11339	416 419			
		1953	2589	11070	3.7	405	2391	10980	406	673	10955	406
		1954	3321	11279	3.7	415	3211	11253	418	2843	10868	404
		1955 1956	3620 2802	11501 11292	3.7 3.7	428 419	3497 2703	11475 11172	429 418	3131 2477	11206 11670	418 439
		1957	3424	11177	3.7	414	3332	11099	415	2730	11169	420
		1958	4965	11575	3.7	431	4564	11380	428	4339	11518	433
		1959 1960	7020 1867	11674 11326	3.8 3.7	438 422	6959 1795	11425 11093	430 417	6470 1817	12032 12061	453 456
	JERSEY	1948	67	7418	5.1	380	11	7405	375			
		1949	216	7388	5.2	385	27	7695	404			
		1950 1951	272 360	7535 7397	5.2	392	50	7594	407			
		1952	44 1	7483	5.2 5.2	382 390	95 138	7816 7858	408 4 11			
		1953	529	7118	5.3	374	227	7439	391	68	6223	409
		1954	552	7411	5.3	389	265	7805	406	225	7524	395
		1955 1956	452 322	7506 7473	5.3 5.3	395 392	223 169	7735 7768	405 407	22 1 20 4	7801 7940	409 417
		1957	368				,			207		

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING YEAR 1958 1959 1960	KECOROS NO. 541 496 189	MILK L8. 7789 7677 7754	TEST PCT. 5.3 5.2 5.2	FAT LB. 408 400 397	305-DAY CONT RLCORLS NO. 22/ 242 104		AV. FAT LB. 424 410 403	YEARLY RECORDS NO. 202 234 96	MILK LE. 8510 8646 8698	ERAGE FAT LU. 445 456 449
8	ROWN SWISS	1953 1954 1955 1956 1957 1958 1959	2 20 34 54 76 166 120 53	8610 9842 9745 8816 9732 10690 10526 9928	4.6 4.5 4.3 4.3 4.2 4.2 4.2	394 435 418 376 409 452 442 420	4 13 18 57 60 50 24	10193 9692 10629 10949 10949 10736	417 408 434 449 461 449 428	4 11 30 36 44 46 26	10432 10250 10319 9504 10087 10685 10900	426 427 439 417 414 449
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	17 318 1102 1689 2271 3494 4513 5382 5395 4001 4697 6606 8473 2363	8153 8979 9326 9296 9089 9454 9478 9897 10288 10228 10223 10706 11046 10655	4.7 4.4 4.4 4.4 4.3 4.2 4.2 4.1 4.0 4.0 3.9	383 389 395 383 393 388 403 415 408 402 421 429 415	35 193 477 763 2150 3904 4935 4667 4329 5666 8084 2169	8846 10451 10173 9839 10040 9841 10246 10586 10454 10506 10861 11033 10669	369 436 423 405 408 396 410 421 413 410 423 425 413	1113 4418 4512 3464 3683 3355 7527 2181	9961 9928 10361 10821 10383 11027 11645	403 400 413 433 412 429 449 452
006	HOLSTEIN	1956 1957 1958 1959 1960	8 88 241 439 106	12029 12081 12301 12288 12186	3.9 3.7 3.8 3.7 3.8	470 449 465 459 458	6 66 193 425 92	12913 12690 13480 12772 12625	466 471 501 472 469	6 51 149 358 83	11901 12270 13589 13235 13505	448 459 506 491 501
	ALL 8REEDS	1956 1957 1958 1959 1960	8 88 241 439 106	12029 12081 12301 12288 12186	3.9 3.7 3.8 3.7 3.8	470 449 465 459 458	6 66 193 425 92	12913 12690 13480 12772 12625	466 471 501 472 469	6 51 149 358 83	11901 12270 13549 13235 13505	448 459 506 491 501
007	AYRSHIRE	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	9 12 29 59 91 162 262 320 332 236 256 254 244	8856 8222 8828 9164 8744 8595 8733 8942 8905 9199 8951 9175 9415	4-1 4-1 4-1 4-0 4-1 4-2 4-2 4-2 4-2 4-1 4-1	356 338 356 373 355 367 374 374 381 387 373	1 14 15 21 60 167 258 261 177 232 236 236	10350 9410 10071 9382 8869 9378 9524 9519 9502 9487 981 9736	370 381 399 307 356 373 385 386 395 389 404 392 396	43 224 245 157 193 194 229	9549 9062 9528 9691 9406 9836 9943 10380	377 364 388 402 382 404 405 419
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	30 81 161 202 277 321 396 421 425 233 250 255 174 56	7882 7488 7925 7609 7679 7827 7622 7859 7902 7808 7872 8005 7914 8178	5.0 5.0 4.9 4.9 4.9 5.0 5.0 4.9 4.8 4.8	390 371 390 374 373 383 379 391 389 382 377 381 364 374	2 11 31 55 108 169 310 371 395 221 245 211 173 53	8020 8073 9413 8871 8728 8630 8311 8595 8813 8744 8822 8683 8492 8507	431 370 437 418 401 401 389 403 413 406 410 396 376 378	108 334 368 207 235 200 171 54	8489 8216 8817 8803 8670 8873 9142 9212	399 389 415 417 408 409 413 419
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	68 202 364 561 692 839 1066 1217 1356 1113 1509 2200 3373 1034	11385 11532 11778 11497 11541 11932 12265 12422 12144 11935 11879 11872 12192 11964	3.5 3.5 3.5 3.6 3.6 3.6 3.7 3.7 3.7	401 405 414 406 412 425 439 445 440 436 439 441 452 443	13 42 100 211 351 549 952 1168 1325 1072 1479 2038 3364	12014 12309 12611 12515 12268 12255 12215 12344 12129 11956 11982 11919 12083 11929	446 439 454 450 443 443 447 444 440 445 444 447	238 1059 1197 1042 1390 1800 3227 1006	11728 12047 12442 12246 12101 12542 12702 12927	420 438 452 452 448 467 471 483

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTLRS OF SIRES IN SERVICE IN ARTIFICIAL DREEDING URGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-LAY CONT			YEARLY H		
STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK LB.	PCT.	FAT LB.	RECURDS NO.	MILK LB.	FAT L8.	RECORDS NO.	MILK LB.	EAT LB.
	JERSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 8 16 32 57 72 71 58 50 84 147 117	8610 7785 6839 7900 7695 7937 8410 8538 8312 7459 7404 7296 6850	4.5 4.9 5.1 5.0 5.1 5.1 5.1 5.2 5.1 5.2 5.4 5.4	383 381 350 391 380 406 428 437 426 384 400 397 370	3 14 37 40 32 28 44 69 77	8807 8226 8444 8543 8788 8713 8737 7601 7751	425 409 425 430 444 441 448 400 408 376	18 37 32 32 51 61 65 29	8667 8241 8698 8953 7958 8436 8726 9017	422 412 438 459 414 434 456 477
6	BROWN SWISS	1952 1953 1954 1955 1955 1957 1958 1959	1 17 43 49 53 53 102 68 28	13470 9911 10591 10198 9816 10137 10826 10844 10824	4.6 4.3 4.4 4.3 4.3 4.3 4.2	622 424 459 443 420 434 463 459 461	6 17 28 19 27 39 26	10580 9737 9295 9364 9993 11279 10591 10466	451 403 393 366 410 472 442 434	1 17 29 18 20 33 40 19	9603 9318 9879 9301 9455 9962 10483 10398	401 409 412 391 402 419 433 429
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	107 297 562 838 1092 1360 1813 2072 2220 1685 2152 2958 3976 1266	10190 10276 10465 10321 10222 10412 10546 10782 10710 10807 10850 11049 11667 11360	4.0 4.0 5.9 4.0 4.0 4.1 4.0 4.0 4.0 4.0 3.6 3.8	394 393 404 395 397 405 414 423 421 421 421 430 443 432	15 54 135 261 483 792 1472 1854 2041 1517 2027 2033 3676 1214	11481 11410 11782 11672 11330 11154 10999 11095 11062 11109 11217 11346 11684 11458	444 424 448 441 431 427 428 430 430 434 436 440 435	408 1671 1671 1456 1897 2288 3732 1208	10501 10774 11244 11372 11251 11845 12277 12417	410 417 435 441 435 455 464 473
008	AYRSHIRE	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 11 19 37 71 106 137 142 199 232 203 69	11750 9543 8802 8541 8364 9181 8776 8969 9070 8756 8507 8461	3.5 4.4 4.2 4.3 4.3 4.3 4.2 4.3 4.2	414 421 366 370 359 396 372 379 386 370 356 352	2 17 44 73 104 90 156 191 201	9765 9345 8877 9349 8982 9452 9354 9248 9114 8803	392 384 358 379 366 384 390 384 370 357	16 69 90 78 96 163 189	8463 9141 9373 9258 9250 9477 9425 9686	344 370 379 377 385 392 366 596
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	40 105 234 329 414 620 815 968 957 647 772 845 680 211	7189 7118 7568 7579 7772 7642 7647 7935 7894 7862 7871 7742 7896 7801	4.9 4.9 4.8 4.8 4.8 4.8	347 346 371 366 378 366 364 383 391 377 377 367 367	4 23 64 113 163 373 691 913 926 622 750 719 676 205	7320 8360 8757 8819 8454 8424 8510 6624 6520 8706 8571 8540 8354	343 396 418 417 401 392 382 397 400 395 403 389 381 371	209 038 836 586 537 637 638 203	8427 8318 8785 8513 6330 9108 9156 9346	390 387 409 403 392 415 412
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	71 335 794 1192 1693 2406 3114 3715 4302 3583 4911 7242 11053 3074	11149 11199 11827 11516 11749 11635 11524 11867 11582 11543 11536 11756 11858 11691	3.5 3.6 3.7 3.7 3.7 3.7 3.8 3.8 3.8 3.9 3.9	390 402 432 430 427 428 445 444 456 461 450	4 68 177 397 667 1455 2671 3484 4077 5375 4771 6482 10975 2946	13043 12529 12579 12057 12136 11744 11458 11780 11682 11602 11679 11703 11647 11623	472 453 466 444 447 433 426 441 445 445 449 451	737 3053 3671 3211 3717 5855 16080 2989	11269 11448 11752 11771 11603 12022 12206 12327	417 426 441 450 444 464 470 477
	JERSEY	1948 1949 1950	5 22 37	7446 7696	5.5 5.6	407 429	3	ช103	430			

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

						305-DAY CONT			YEARLY F		
STUD BREED	FRESHENING	RECORDS	MILK	TEST	FAT	KECURDS	MILK	FAT	RECURLS	MILK	FAT
	YEAR	NO.	L8.	PCT.	LB.	NO.	Lê.	L8.	NU.	LB.	LB.
	1951	49	7813	5.3	413	3	8650	423			
	1952	65	7313	5.4	390	12	7393	382			
	1953	83	7693	5.3	403	24	7679	388	11	9484	417
	1954	81	7506	5.4	405	27	7860	413	27	7466	395
	1955	76	7504	5.4	404	29	8249	436	29	8137	435
	1956	82	7860	5.3	415	38	8416	444	51	8564	456
						65	8309	441	63	7831	416
	1957	126	7965	5.3	422						
	1958	229	8221	5.3	436	96	8036	424	105	8567	455
	1959	260	8243	5.3	435	148	8059	418	141	8395	440
	1960	105	8042	5.2	418	69	8027	415	66	8438	439
BROWN SWISS	1959	2	6805	4.1	273	1	15020	626	1	12099	519
	1960	8	11301	4.2	467	7	11069	472	8	10636	451
ALL BREEDS	1947	111	9722	4.0	374	8	10181	407			
ALL DREEDS	1948	445	10194	3.9	389	91	11476	439			
	1949	1051	10793	4.0	418	244	11522	453			
	1950	1569	10580	3.9	408	514	11310	438			
	1951	2175	10878	3.9	419	995	11444	438			
	1952	3128	10717	3.9	413	1857	11027	424			
	1953	4083	10617	4.0	413	3430	10758	416	975	10588	410
	1954	4870	10954	4.0	431	4497	11053	431	3981	10723	416
	1955	5472	10810	4.0	430	5136	11057	435	4632	11145	434
	1956	4454	10858	4.0	430	4125	11001	434	3928	11192	442
	1957	6008	10908	4.0	433	5742	11190	441	4417	11097	436
	1958	8548	11183	4.0	444	7488	11293	443	6760	11632	457
	1959						11385		11049		
		12 198	11503	4.0	454	12001		443		11933	465
	1960	3467	11278	4.0	442	3289	11289	438	3331	12013	471
009 HOLSTEIN	1951	9	10368	3.5	368	2	12735	457			
	1952	46	11718	3.5	408	24	11607	431			
	1953	42	11953	3.6	426	33	12185	445	13	12109	443
	1954	38	12494	3.5	441	34	12040	448	29	11905	443
	1955	28	13041	3.7	478	20	12291	473	25	12175	4.57
	1956	16	13198	3.5	467	14	12477	4//	14	12551	479
	1957	12	13014	3.6	487	11	12236	470	9	11819	447
	1958	9		3.5							447
			14303		506	6	12142	465	5	12598	
	1959	9	12919	3.4	446	9	11581	433	9	12312	457
	1960	2	15655	3.4	527	2	12095	446	2	12895	491
JERSEY	1955	1	9540	5.4	502	1	8650	458	1	0426	401
	1956	14	7608	5.3	397	2	8380	433	4	8232	408
	1957	11	7935	5.3	415	3	8120	430	5	6279	333
	1958	35	7/39	5.5	428	ادا	8444	446	12	0647	466
	1959	49	7488	5.5	413	24	8196	4.32	21	8681	459
	1960	17	7672	5.4	410	5	8458	423	5	8947	460
ALL BREEDS	1951	9	10368	3.5	368	2	12/35	457			
	1952	46	11718	3.5	408	24	11607	431			
	1953	42	11953	3.0	426	33	12185	445	13	12109	443
	1954	38	12494	3.5	441	34	12046	443	24	11905	443
	1955	29	12913	3.7	417	27	12157	472	20	12031	457
	1956	20	12060	3.9	453	16	11965	472	lo	11591	463
	1957	23	10698	4.4	453	14	11354	466	12	10434	418
	1958	44	9082	5.1	444	21	9500	451	17	9309	473
	1959	58	8331	5.2	410	33	9119	433	30	9770	458
	1960	19	8512	5.1	422	7	9497	427	7	10075	469
	1700	17	0312	٦.١	422	1	7471	427	,	10013	407

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONTE	MPOKARY	AV.	YEAKLY F	ERD AV	ERAGE
STUD	BREED	FRESHENING	KECURDS	MILK	TLST	FAT	RECORDS	MILK	FAT	RECORDS	MILK	FAT
		YEAR	140 •	LB.	PCT.	LB.	NU.	LB.	LB.	NU.	LB.	LB.
014	GUERNSEY	1947	7	7270	4.5	330						
		1948	9	7849	4.0	361	1	10310	419			
		1949	8	8345	4.7	391	1	h650	380			
		1950	5	8134	4.9	391	1	4500	442			
		1951	3	8160	4.7	383	1	8700	406			
		1952	2	5165	5.1	274	1	6670	416			
		1953	1	8030	5.5	422	1	8090	405			
		1954	1	8480	5.1	452	1	8300	404	1	8208	407
		1956	1	9610	4.9	473	1	0666	401	1	7837	378
	ALL BREEDS	1947	7	7270	4.5	330						
		1948	9	7849	4.6	361	1	10310	4/9			
		1949	8	8345	4.7	391	1	8650	330			
		1950	5	8134	4.7	371	1	9560	442			
		1951	3	8160	4.7	383	1	8700	406			
		1952	2	5165	5.1	274	1	6670	416			
		1953	1	8030	5.3	422	1	8090	405			
		1954	1	8480	5.1	432	1	8360	404	1	8208	407
		1956	1	9610	4.9	473	1	8680	401	1	7837	378

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING CRGANIZATIONS--GROUPED BY STUG, BY BREEC, BY YEAR OF FRESHENING

	GROUPE	ED 84 2100 84	SKEEU, ST YE	AK UF FI	KESHENIN	16					
STUO	8REE0	FRESHENING YEAR	RECOROS MIL NO. L8		FAT L8.	305-DAY CONTE RECORDS NO.		AV. FAT L8.	YEARLY I RECORDS NO.		FAT LB.
000	GUERNSEY	1947	8 694	9 4.7	324						
000	HOLSTLIN	1947 1948 1949 1950 1951 1952 1953	32 1018 16 1084 12 1164 4 1296 3 1119 3 1117 2 1125	3 3.6 0 3.7 5 3.8 3 3.5 0 3.3	492 391	1 1 1 2 3 2	11420 10710 17010 10285 10757 12655	397 413 588 354 383 429	ž	11233	408
	JEKZEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	6 586 9 853 4 836 3 642 1 828 2 901 1 994 1 817 1 657 1 725	8 5.1 8 5.1 7 5.4 0 5.4 5.4 0 4.9 0 5.2 0 5.3 0 5.5	432 427 347 447 483 489 425 348 398	1 1 1	6420 7970 7730 9020	354 380 390 424	1	8676 7968	444 419
		1958 1960	2 817 1 653			2 1	8305 7410	435 401	2	8339	428
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	46 905 25 1001 16 1082 7 1016 4 1046 5 1030 3 1081 1 817 1 657 1 725 1 727 2 817	8 4.0 3 4.1 2 4.0 3 4.4 4.0 5 4.0 7 4.0 0 5.2 0 5.3 0 5.5	355 406 434 430 405 413 427 425 348 398 388	1 1 1 2 4 2	11420 10710 17010 10285 9673 12655 7970 7730 9020 8305	397 413 588 354 376 429 380 390 424 435	2 1 1 2	11233 8676 7968 8339	408 444 419 428
		1960	1 653			1	7410	401	2	0337	420
001	AYRSHIRE	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	14 1049 44 1055 86 972 100 978 143 956 198 974 237 979 231 955 198 971 274 993 78 984	6 4.1 8 4.1 6 4.1 0 4.1 5 4.1 2 4.1 8 4.1 0 4.1	428 394 397 391 400 398 392 396 404	9 22 40 66 99 125 116 114 258	10442 10041 10133 9424 9546 9335 9621 10173 9786 10009	418 402 405 384 384 372 384 411 391	33 55 70 88 87 68 207 47	9985 9773 9488 9384 9878 9497 9821	402 391 376 374 393 580 400 418
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 931 12 771 25 817 31 867 67 813 104 811 172 806 261 798 219 827 244 816 169 824 143 902 109 891	4 4.7 9 4.7 9 4.7 8 4.7 4 4.7 6 4.8 0 4.7 1 4.7 2 4.7 1 4.6 9 4.6	362 385 412 385 382 383 376 385 378 382 416 412	1 2 6 24 52 123 205 191 187 125 112 96 22	10650 8445 8230 8958 8871 8690 8453 9174 9250 10006 10088 9609 9267	393 393 393 402 396 389 409 413 432 451 428 419	99 184 171 166 103 75 70	8575 8577 8788 9167 9052 9190 9667 9965	392 390 397 414 404 418 431 431
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	21 1017 44 1124 88 1184 177 1222 305 1186 515 1256 869 1237 1119 1246 1373 1264 1569 1235 1669 1231 1932 1278 2654 1299 587 1310	4 3.4 1 3.5 8 3.5 5 3.6 0 3.5 0 3.5 0 3.5 0 3.5 0 3.5 0 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	385 417 428 421 438 430 434 445 437 4460 471	5 15 52 142 358 794 1059 1302 1486 1524 1411 2552 521	11438 12330 12225 12184 12085 11919 12100 12414 12362 12439 12746 12782 12813	417 446 449 432 430 420 425 438 442 448 462 466 471	614 904 1090 1342 1359 1220 2118 223	11891 11922 12291 12299 12408 12555 12961 13264	424 420 435 438 446 455 475
	JERSEY	1947 1948 1949 1950	26 809 29 823 52 758 90	4 4.9	404	2 2 7	8670 7225 7666	418 380 414			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

						305-DAY CUNTE	MPORARY	AV.	YEARLY H	HERD AV	ERAGE
STUD BREED	FRESHENING	RECORDS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECORDS	MILK	FAT
	YEAR	NO.	LB.	PCT.	LB.	NO.	LB.	LB.	NO.	LB.	re.
	1951	131	7713	5.2	397	1† tt	8323	429			
	1952	207	8091	5.1	411	85	8119	419			
	1953	261	7888	5.1	404	147	7970	406	114	7947	405
	1954	227	7862	5.2	405	129	7699	398	109	7959	407
	1955	209	7941	5.1	402	126	8330	421	114	8134	419
	1956	200	8080	5.1	409	110	8624	432	98	8507	431
	1957	195	7732	5 · i	394	103	8116	412	100	8069	411
	1958	413	8457	5.1	429	218	8527	436	158	8290	434
	1959	635	8239	5.1	421	486	8013	410	378	8308	425
	1960	207	8531	5.1	435	171	8243	423	62	7768	400
	.,										
BROWN SWISS	1947	8	10560	3.9	419	1	13830	451			
	1948	6	11087	4.0	446	i	11180	342			
	1949	10	10410	4.0	418						
	1950	14	11674	3.9	458	ц	12610	505			
	1951	25	10536	4.2	438	7	11449	449			
	1952	52	10578	4.1	428	≥0	11522	452			
	1953	107	10181	4.1	420	44	10545	419	23	9969	399
	1954	128	10603	4.1	436	53	11159	453	50	10325	418
	1955	139	11210	4.1	457	99	10974	440	90	10471	424
	1956	267	10645	4.2	443	143	11039	453	111	10820	443
	1957	321	10197	4.2	428	138	10710	442	127	10556	436
	1958	438	10712	4.2	449	144	10885	450	119	10493	436
	1959			4.2	459	395	11178	463	346	10896	452
		650	10908							11006	
	1960	105	10419	4.1	43 i	66	10877	450	30	11000	456
ALL BOSES	101.7	EG	0251	1, 2	200	7	10300	1120			
ALL BREEDS	1947	58	9251	4.2	385	3	10390	429			
	1948	91	9809	4.1	392	9	10386 10646	398			
	1949	175	9970	4.2	400	24		432			
	1950	326	10635	4.1	423	81	10981	442			
	1951	572	10329	4.1	412	226	10997	428			
	1952	964	10761	4.1	422	537	11041	425			
	1953	1509	10780	4.0	417	1148	10953	414	883	10889	416
	1954	1878	10952	4 • 0	420	1512	11081	416	130∠	10965	413
	1955	2138	11373	3.9	43 i	1817	11555	431	1535	11357	426
	1956	2517	11189	3.9	426	2051	11601	435	1805	11572	432
	1957	2585	11191	3.9	427	2006	11763	441	1776	11713	438
	1958	3124	11554	4.0	448	1999	11856	455	1640	11714	447
	1959	4322	11636	4.0	456	3787	11718	453	3119	11886	460
	1960	1005	11517	4.1	456	849	11422	452	373	11704	461
002 AYRSHIRE	194B	1	8050	3.4	271						
	1950	3	8703	4.5	387	1	10130	395			
	1951	15	9351	3.9	364	3	10877	465			
	1952	45	9748	3.9	377	18	9776	369			
	1953	61	9494	4.0	375	22	9267	357	9	8124	313
	1954	49	9974	3.8	383	13	9855	376	5	8772	359
	1955	37	9426	3.8	362	16	10461	410	11	9507	358
	1956	17	10504	3.8	399	13	9828	387	8	9568	359
	1957	8	10701	3.9	416	6	10053	405	څ	8339	340
	1958	5	9232	3.9	35B	5	10440	392	5	10329	406
	1959	3	11090	3.9	435	2	12965	488	2	12339	455
	1960	ĩ	10030	3.1	311	1	11230	444	1	10802	422
	1,00	•	.0030	3.1	311	•	11230	777	•	10002	722
GUERNSEY	1947	26	7170	4.7	337						
SOLKHISET	1948	22	7516		363						
	1949	69	7/94	4.8		l ₄	01:49				
	1949	79	7928	4.8	375 394	15	9468	480			
	1951	94	8103	5.0	385		8463	424			
	1952	148	7991	4.8		40	8308	395			
	1953	202	8248	4.9	387	79	8300	388	O. / .	0.400	1: 0 :
				4.7	390	146	8134	377	92	8688	406
	1954	209	7970	4.7	374	158	8490	381	124	8536	390
	1955	204	8 12 7	4.7	378	185	8798	398	144	8652	391
	1956	198	8227	4.7	386	164	9169	417	143	9111	410
	1957	139	8305	4.6	379	124	9354	418	87	8978	407
	1958	119	8524	4.6	396	95	9654	426	68	9254	406
	1959	115	8458	4.6	389	108	9234	412	87	9337	828
	1960	31	8966	4.7	416	29	9280	421	5	9252	444
1101 0701	10: 7			_							
HULSTEIN	1947	116	12313	3.5	431	6	14775	535			
	1948	124	12348	3.5	430	24	13085	468			
	1949	207	12153	3.6	430	45	12702	455			
	1950	362	12251	3.5	433	123	12564	453			
	1951	501	12269	3.5	433	259	12301	437			
	1952	728	12303	3.5	432	502	12486	441			
	1953	934	12615	3.5	442	851	12467	442	615	12162	435
	1954	1123	12636	3.5	440	1069	12471	439	36 6	12369	443
	1955	1318	12591	3.5	442	1249	12567	444	دَ 109	12370	438
	1956	1261	12370	3.5	434	1180	12396	439	1045	12737	454
	1957	1105	12290	3.5	431	1002	12325	438	942	12341	440
	1958	1388	12716	3.6	451	1127	12595	452	960	12446	446
	1959	2479	12779	3.6	462	2400	12564	459	1888	12699	466
	1960	504	13107	3.6	471	457	12733	465	162	12696	461

STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAT	305-DAY CONTI	MILK	FAT	YEARLY F	MILK	FAT
	JERSEY	YEAR 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	27 42 110 160 144 207 223 189 150 112 81 186 335 94	6403 7145 7344 7711 7523 7630 7479 7437 7261 7668 7736 8261 7936 8402	5.6 5.4 5.4 5.3 5.4 5.3 5.2 5.2 5.2 5.2 5.2 5.2	L8. 347 381 394 410 401 402 389 385 377 397 397 434 413 435	NO. 4 15 38 42 92 136 115 87 71 56 129 2492 75	9563 7150 7756 7779 8010 7667 7899 8205 8309 6217 8159 7912 8044	477 382 417 407 417 402 408 434 438 425 426 413	97 94 71 65 46 76 174	7943 7034 7034 7035 8222 7670 8252 8362 7856	419 400 409 432 407 428 442
В	ROWN SWISS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 1 5 16 31 38 34 11 30 25 22 28	12952 14050 10436 9691 10390 11769 10792 11447 10643 11027 11260 11921 12217	4.1 3.9 4.3 4.1 4.3 4.3 4.3 4.3 4.3	523 547 606 431 396 444 486 459 492 469 475 479	5 8 15	11320 8934 9611 10042 11634 10730 10451 16503 9603 9807 10790	445 366 381 409 471 435 437 405 413	11 14 7 15 7 0	9541 10507 9787 10782 10457 9539 10208 9538	389 430 408 442 430 393 415 372
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	175 191 387 609 770 1159 1458 1604 1720 1618 1358 1720 2960 633	10659 10643 10015 10465 10763 10767 11072 11295 11521 11486 11578 11915 12053 12196	4.0 4.1 4.3 4.2 4.0 4.0 4.0 5.9 3.8 3.8 3.7 5.8 3.9	407 412 410 421 417 419 425 427 425 425 445 463	6 20 64 178 349 699 1170 1371 1547 1196 1363 2817 564	14775 12582 11198 11171 11239 11324 11277 11594 11841 11703 11799 11946 11740 11922	535 469 442 428 429 427 427 436 436 447 452 457	d24 1105 1326 1274 1089 1115 2164 190	11199 11496 11685 12004 11349 11340 12200 12044	428 433 430 448 435 442 478 456
003	GUERNSEY HOLSTEIN	1948 1952 1953 1947 1948 1949 1950 1951 1952 1953 1954 1955	14 11 7 3 1	9780 8800 8740 10619 11013 12461 11059 12816 11500 13393 12550 12305 9895	5.0 5.0 4.9 3.4 3.7 3.5 3.4 3.5 3.4 3.6 3.2 3.2	488 438 426 302 394 431 378 451 393 400 400 393 343	1 2	13660 13690 16600 12633 11370 10705 12000	482 473 577 445 392 588 410	2 1 2 2	11489 10529 11325 11004	348 368 399 395
	JERSEY	1947 1948 1949 1951 1952 1953 1956	3 3 3 1 1 3	7250 8117 7353 8510 4620 9360 8660	5.5 5.6 6.0 5.2 6.2 4.8 5.2	396 454 438 442 286 448 449	1	5770 7410 8580	374 366 378			
	ALL BRÉEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955	16 22 21 14 12 9 7 1 2	9988 10562 11731 11059 12458 10436 11000 12550 12305 9483	3.8 4.0 3.9 3.4 3.7 3.9 4.3 3.2 4.0	369 407 432 378 450 386 458 464 393 378	1 2 1 2 4 1 1 2 2	5790 10535 13690 16600 11658 11370 10705 12000	374 424 473 577 428 392 388 410	۷ ۱ ۷	11489 10529 11325 11004	398 368 399 395
004	GUERNSEY	1947 1948 1949 1950 1951 1952	29 12 12 6 9 7	8912 8199 8704 8678 9051	4.8 4.7 4.6 4.7	424 383 396 402 407	2 2 3	9430 8425 7827	446 394 509			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

					305-UAY CONTI	EMPORARY	Δ٧	YEARLY 1	IERU AV	FRAGE
STUO BREED	FRESHENING YLAR 1953 1954	NO. 5 7	IILK TEST 18. PCT. 1426 4.4	LB. 324	RECURDS NO.	MILK LB. 8137 8373	FAT LB. 366 389	RLCURDS NO. 3	MILK Lb. 7630 7805	FAT LB. 393 404
	1955 1956 1957 1958	1 7 1 11 1 9 1 9	290 3.8 240 4.2 260 4.2 350 5.	3 277 5 503 2 387 475	1 1 1	8710 10590 8860	422 418 437	1 1 1	8001 9396 8164	397 391 419
	1959		1120 4.1		1	8610	411	1	8731	441
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	.51 11 71 12 100 11 96 11 87 11 77 12 64 12 38 13 26 13 14 13 13 14 10 15	304 3.9 944 3.6 944 3.6 718 3.7 726 3.6 6022 3.9 1145 4.6 1218 3.1 1073 3.4 1167 3.4 1232 3.6 1453 3.4 1080 3.6	427 427 418 418 410 410 422 415 448 448 448 445 447 527 575	2 4 15 28 45 59 74 59 35 22 12 10 7	11335 11158 11021 12176 12021 12437 12519 12527 13229 12822 12162 13621 13506 14910	456 410 395 440 424 431 437 439 461 455 440 484 581	60 52 32 21 11 8 7	11913 11901 13017 13291 12888 12588 12588 13310 14955	424 422 462 472 454 446 473 566
JERSEY	1947 1948 1949 1950 1951 1952	5 6 2 7 2 7 1 7 1 8	5.33 5.5 320 5.8 380 4.9 530 5.6 830 5.6 8450 4.8	345 380 394 391 394	1 1 1	7570 8010 8780 8690	351 367 402 427	1	8687	405
8KOWN SWISS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	3 9 2 13 4 13 9 10 6 11 7 11 3 10 4 13 3 11	330 4.1 487 4.0 6020 4.0 6020 4.0 6020 4.0 6020 4.0 6050 4.0 6050 4.0 6050 4.0 6050 3.0 6050 3.0	3 413 509 532 454 2 482 477 3 465 0 526	2 4 6 6 3 4 3	12630 11913 10607 10785 10987 11965 10433	438 467 429 431 450 484 460	ს 3 4 3	11695 9592 10137 11598	476 392 412 471
ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	71 10 87 11 112 11 115 11 101 11 89 11 72 11 43 12 31 12 16 12 14 13	275 4.811 3.575 3.1575	413 423 416 420 421 421 451 463 463 463 472 520	2 4 17 33 53 68 83 65 39 27 13 11 6	11335 11158 10834 11836 11700 12086 12235 12264 13099 12251 12041 13188 12894 14910	456 410 401 455 428 434 437 464 454 476 476	69 57 36 26 12 4	11707 11635 12697 12715 12597 12077 12738 14955	427 420 456 467 448 443 469 566
005 GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	19 7 24 7 30 7 43 7 50 7 35 7 29 7 12 7 9 7 7 7	278 4.6 575 4.3 993 4.3 998 4.5 552 4.6 558 4.6 341 4.7 976 4.1 412 4.3 343 4.1 6080 4.7 1140 4.3	3 364 3 378 7 375 7 356 8 361 7 344 8 382 9 355 7 361 7 382	3 6 8 17 27 32 28 12 9 6 3	7393 9038 7986 8393 8476 8473 8257 9852 8691 9417 8637 7290	377 423 378 397 383 381 382 412 405 418 425 350	27 26 10 8 6 3	8110 8718 9200 8778 9251 6255	376 397 424 417 418 411
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	19 9 17 11 20 10 17 11 9 11 7 10 1 11 1 10 1 11	270 3.4 456 3.4 475 3.1 832 3.4 131 3.7 762 3.4 9409 3.8 9540 3.4 120 3.4 1270 3.4 230 3.5	333 41d 383 407 426 436 436 346 346 383 35d	1 2 3 4 3 0 1 1 1	7850 11165 12267 12080 12797 11517 12050 9110 10670 11950 4320	342 434 466 438 496 407 428 513 383 406 162	<i>i</i> 1 1 1 1	12256 11532 9843 11434 11609 11580	435 412 329 395 397 423

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT			YEARLY I		EKAGE
STUD	BREED	FRESHENING YEAR	RECURDS NO.	MILK LB.	TEST PCT.	FAT L8.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.
		TEAR	140.	LD.	rei.	LO.	140.	LD.	L.D.	110.	L. D.	LD.
	JERSEY	1947	7	8411	5.6	466						
		1948		7453	5.0	372						
		1949	10	7826	5.0	396						
		1950	10	7525	5.0	376	1		511			
		1951 1952	Lţ Łţ	8825 8403	5.1	449 472	'	8630	211			
		1953	12	8376	5.6 5.4	455	5	7610	412	4	8262	44
		1954	15	8401	5.5	455	8	8108	410	5	7905	40:
		1955	8	8465	5.3	447	3	8795	440	2	8502	402
		1956	3	8713	5.0	443	8 3 2	9805	530	ī	9025	480
		1957	3	8907	5.4	481	2	8570	448	i	B197	44
		1958		7620	5.9	445	2	9130	480	i	9025	48
		1959	2 6	9547	5.5	513	6	8572	443	5	8733	46
		1960	4	7990	5.2	410	4	7523	388			
	ALL BREEDS	1947	34	9507	4.2	385						
	ALL ONLEDS	1948	44	8371	4.3	352	4	7508	369			
		1949	51	9102	4.5	395	8	9570	426			
		1950	60	8864	4.4	378	11	9154	402			
		1951	64	8569	4.5	375	22	9074	409			
		1952	63	8212	4.7	377	30	8948	394			
		1953	54	7968	4.7	375	43	8797	38a	3 c	8890	39
		1954	45	8197	5.0	407	ے 7	8327	389	34	8081	39
		1955	21	7939	4.9	390	16	9607	411	1.3	9604	4.1
		1956	13	7950	4.8	381	12	9042	424	16	9068	42
		1957	1.1	8250	4.8	393	9	9510	423	Ł	9414	4.1
		1958	5 8	7932	5.2	407	5	8834	447	4	8448	43
		1959	8	9761	5.0	477	៦	7880	396	6	9174	45
		1960	14	7990	5.2	410	4	7523	88د			
006	GUERNSEY	1947	7	7996	4.7	366						
		1948	1	8380	4.6	385						
		1949	9	6990	4.7	327	1	b740	457			
		1950	1	7260	4.7	344	1	4970	249			
		1952	1	5630	5.0	280	1	7870	570			
		1955 1956	1 1	7220 9920	4.1 4.7	298 468	1	75ა0 7120	347 324	1	7096	32
		1957		10300	4.8	490	'	1120	324	i	7172	33
	HOLSTEIN	1947 1948		11140 10988	3.2	352 376						
		1948	10	12388	3.4	419						
		1950		11015	3.4	370	z	9980	351			
		1951	17	10748	3.6	390	16	11020	415			
		1952		50د ا	3.4	396	16	11109	411			
		1953		11047	3.4	369	14	10524	374	16	10627	37
		1954		10213	3.5	357		10960	395		11096	40
		1955	3	13197	3.3	442	3	10887	407	<u>-</u> خ	10678	39
		1956	4	11060	3.6	398	4	11233	396		11830	42
		1957	2	12175	3.4	404	2	10975	393	2	11614	42
		1958	1	11370	3.3	393	1	11630	409	1	11718	40
	ALL BREEDS	1947	10	8939	4.2	362						
		1948		10466	3.0	378						
		1949	19	9831	4.0	375	1	8740	457			
		1950	17	10794	3.5	368	4	8728	325			
		1951	17	10948	3.0	390	10	11026	415			
		1952	15	11155	3.5	388	11	10815	407			
		1953	14	11047	3.4	369		10524	374		10627	37
		1954	10	10213	3.5	357		10960	395		11096	40
		1955	4	11703	3.5	406	4	10060	392		10678	39
		1956	5	10832	3.8	412	5	10410	38 l		10647	39
		1957		11550	3.8	432	2	10975	393	3	10133	39
		1958	1	11870	3.3	393	1	11630	409	1	11718	40

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF STRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BKEED	FRESHENING YEAR	RECORDS NO.	MILK	TEST PCT.	FAT LB.	305-DAY CONT RECURDS NO.		AV. FAT LB.	YEARLY RECORDS MO.		ERAGE FAT LB.
002	GUERNSEY	1953 1955 1956 1959 1960	1 1 1 5	11940 8560 7840 9634 7100	4.5 4.8 4.6 5.2 3.9	538 408 364 498 277	1 1 1 3 1	9660 9490 9900 9410 6960	436 428 461 453 318	1 1 1 3 1	10202 9298 9265 9229 7412	460 468 444 458 342
	HOLSTEIN	1952 1953 1954 1955 1956 1957 1958 1959	9 77 92 93 127 199 174 174	13171 13558 13813 13928 14170 13640 13466 13146 13472	3.8 3.7 3.7 3.7 3.8 3.7 3.7 3.6	496 502 512 516 529 512 498 487	3 64 76 79 113 173 129 165 22	14460 13723 14114 13703 14361 13992 13069 13177 13118	514 514 525 514 541 532 502 487 489	51 66 72 112 163 106 152	13147 13276 13087 13634 13730 12943 13443 12696	492 497 482 511 523 488 499 476
В	ROWN SWISS	1952 1953 1955 1956 1958	1 1 2 1 1	8980 11860 9905 7570 7800	4.2 4.3 4.1 4.4 4.1	380 508 406 332 320	1 2 1	11230 10305 9860 9050	470 426 410 3/3	1 2 1 1	9025 7538 8578 8360	386 321 358 347
	ALL BREEDS	1952 1953 1954 1955 1956 1957 1958 1959	10 79 92 96 129 199 175 179	12752 13516 13813 13789 14070 13640 13433 13048 13227	3.8 3.7 3.7 3.7 3.7 3.8 3.7 3.8	484 503 512 512 526 512 497 488 479	3 66 76 82 115 173 130 168 23	14460 13623 14114 13761 14283 13972 13038 13109 12850	514 512 525 511 539 532 501 486 481	55 66 75 114 163 107 155	13013 13276 12889 13551 13730 12940 13361 12109	489 497 478 509 523 487 498 461
003	GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957	1 8 20 16 23 12 20 21 5 5	7930 8926 8269 8050 8121 7393 7865 7570 8592 9938 8692	5.8 5.5 5.7 5.5 5.4 5.3 5.0 5.0 5.2 5.2 4.8	460 490 463 435 429 392 391 380 443 515	1 9 11 17 9 11 10 5 4	7470 9250 9685 9011 9260 9801 9382 9448 9418 8280	425 486 477 455 431 466 463 472 516 417	15 7 11 9 5 5 4	8941 9336 9282 10022 8966 10937 9036	456 438 433 472 451 546 459
	HULSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	3 16 26 49 45 41 36 23 10 8	12803 13852 13620 13661 13659 13468 13174 13534 13619 14905 16375	3.7 3.8 3.7 3.8 3.8 3.7 3.6 3.6 3.8	453 528 509 515 515 514 481 491 496 567 630	4 11 26 37 40 53 22 10 8	15688 14049 14140 13220 13540 13814 13799 13569 13445 14677	581 504 513 486 498 504 512 504 536 528	32 39 35 22 10 5	13344 13499 13240 13507 13704 14855 14606	490 505 481 499 511 551 539
	JERSEY	1953 1954 1955 1956	1 2 1 1	8260 6635 9520 10460	4.6 4.8 4.6 4.5	378 312 437 475	 	8390 8340 8830 9930	431 419 493 487	ı	8131 8938 9559	405 458 485
В	RÜWN SWISS	1950 1951 1952 1953 1954 1955 1956 1957 1958	4 8 8 3 2 1 1 1 3	9063 8789 9265 7967 8025 8130 10640 11360 12187 10500	4.0 4.2 4.1 4.2 3.9 3.6 4.1 4.0 3.8 3.7	362 365 378 337 337 297 439 451 454 385	2 1 1	9020 8320 7950 9980	381 350 338 410	1	გ502 IU519	355 446
	ALL BREEDS	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	4 28 54 73 72 57 58 46 16 16	11o30 11760 10922 11949 11578 11780 11194 10o32 11907 12843 11946	4.2 4.3 4.5 4.2 4.3 4.2 4.1 4.3 4.1	455 494 471 482 478 475 446 439 477 529 501	5 22 38 56 51 45 33 15 12	14044 11620 12697 11762 12613 12722 12343 12195 12236 11021	550 485 499 473 483 495 497 493 529 464	48 48 45 32 15 8	11867 12719 12177 12403 12125 13365 11423	477 492 469 491 491 549

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BRIED, BY YEAR OF FRESHENING

STUD	BREED	FRESHLNING YEAR	RECURDS NO.	MILK L8.	TEST PCT.	FAT LB.	305-DAY CONTO RECORDS NO.		AV. FAT LB.	YEARLY F RECORDS NO.		ERAGE FAT LB.
004	JER SE Y	1949 1950 1951 1952	4 1 2 1	8275 9080 10570 9110	5.3 4.6 4.5 4.4	425 418 476 398						
	ALL BREEDS	1949 1950 1951 1952	4 1 2 1	8275 9080 10570 9110	5.3 4.6 4.5 4.4	425 418 476 398						
005	JERSŁY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	39 29 28 24 25 32 34 21 16 11 3	7828 7971 8213 8385 7581 7405 7891 7812 6816 7088 7400 8550 8787	5-1 5-3 5-4 5-2 5-3 5-4 5-2 5-2 4-9 5-3	401 420 435 439 395 395 417 424 353 366 351 421 461	4 8 9 11 17 12 6 6 2	8190 7186 7444 7154 7115 7553 8216 8049 8582 8220 9150	422 379 386 377 370 390 419 398 445 429	9 15 6 1	o315 7854 7844 7995 7423	435 402 391 414 361
	ALL BREEDS	1947 1948 1949 1950 1951 1953 1954 1955 1956 1957 1958	39 29 28 24 25 32 34 21 16 11 3 2	7828 7971 8213 8385 7581 7465 7891 7812 6816 7088 7400 8550 8787	5.1 5.3 5.4 5.2 5.3 5.4 5.2 5.3 5.4 5.4 5.3	401 420 436 449 395 393 419 424 353 360 351 421 461	4 6 9 11 17 12 8 6 2	8190 7186 7444 7154 7115 7553 8216 8049 8582 8220 9150	422 379 286 377 370 390 419 398 445 429	9 13 6 1	d315 7854 7854 7895 7423	435 402 391 414 361 436
006	HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 18 31 27 47 44 32 28 17 12 7	12656 12508 12647 12337 12977 13284 12171 13526 12982 12279 11769 14050	3.4 3.5 3.4 3.4 3.3 3.1 3.1 3.1 3.4 3.4	444 435 440 422 434 429 379 412 463 397 454	1 9 21 23 40 43 31 27 16 12 7	16260 13081 12533 13105 13090 13163 12250 13173 11807 11698 11837 7340	569 441 424 457 433 428 595 435 391 405 458 355	40 31 27 10 9 7	12375 12939 12427 14541 11262 11364 14584	434 441 409 496 376 414 517
	ALL BREEDS	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	31 27 47 44 32 28 17	12656 12508 12647 12337 12977 13284 12171 13526 12982 12279 11769 14050	3.4 3.5 3.4 3.4 3.1 3.1 3.1 3.4 3.4	444 435 440 422 434 429 379 412 402 413 397 454	43 31 27 10	13173	169 441 427 433 428 395 435 435 405 458 330	lo	12395 12959 12427 14541 11282 11864 14584	434 441 409 496 370 414 517
007	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	17	12243 13169 13296 12661 12709 12376 14920 13905 12703 9850 12930	5.7 3.6 3.6 3.6 3.7 2.6 3.9 3.8 3.8	447 477 482 458 454 454 388 525 470 339 429	1 2 4 1 1 1	11730 13925 12540 10730 16270 13450 9270 12800	390 495 447 383 555 488 301 479	ı	11/14 14094 10148 16638	410 500 366 359
	ALL BREEDS	1948 1949 1950 1951 1952 1953 1954 1955	3 17 22 15 17 16 1	12243 13189 13296 12061 12709 12376 14920 13905	3.7 3.6 3.6 3.6 3.7 2.6 3.0	449 479 482 458 454 454 554 525	1 2 4 1	11730 13725 12540 10730 16270	390 495 447 383 555	ر ا	11714 14094	410 500

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING GRGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

S TUD	BREED	FRESHENING YEAR	RECORDS NO.	MILK	TEST PCT.	FAT LB.	305-DAY CONTI RECORDS NO.	EMPORARY MILK LB.	AV. FAT LB.	YEARLY RECORUS NO.	HERD AVI MILK LB.	FAT LB.
		1957 1960	1	9850 12930	3.4	339 429	1	9270 12800	301 479	1	10638	359
009	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 6 10 8 5 2 3 5 3	8113 8408 7351 7706 8586 7150 8623 7720 8230 7880	5.1 5.2 5.4 5.3 4.7 5.1 4.8 4.7 4.8	416 436 396 408 402 358 412 361 397 376	1 2 3 2 3 5 3 5 3	9000 9085 8693 9345 10303 7204 9387 8177	468 464 463 484 500 331 454 388	2 3 1 3 5 3	9609 9541 9995 9330 8526 8088 7630	488 477 500 453 426 393 373
	HOLSTEIN	1954 1955 1956 1957 1958 1959 1960	1 2 2 1 8 1 6 1 3 1	11690 21700 10735 12124 11398 12477 10860	3.7 3.9 3.7 3.6 3.7 3.3 3.8	435 840 392 439 415 415 409	1 2 7 5 3 1	15830 12565 12049 11510 12090 11290	526 433 407 396 414 389	1 8 5 3	14857 11816 12509 11271 11510	552 395 428 383 389
	ALL BREEDS	1950 1951 1952 1953 1954 1955 1756 1957 1958 1959	8 6 3 1 5 13 1 9 1 6 1	8113 8408 7351 7706 9103 12000 9468 10430 10342 10178 10860	5.1 5.2 5.4 5.3 4.5 4.7 4.3 4.0 4.1 4.1	416 436 396 468 407 519 404 409 409 396 409	1 2 3 3 5 12 8 6	9000 9065 6693 11507 11208 10030 10714 10133 11290	468 464 463 498 473 375 418 401 389	2 3 2 4 13 8 6	9609 9541 12426 9952 10977 10077 9570	488 477 526 439 427 387 381
010	GUERNSEY	1951 1952 1953 1954 1955 1956 1957 1958 1959	1 9 11 4 5 3 3	8180 8940 8083 8199 9320 9612 6377 9957 8883	5.2 5.7 4.8 4.7 4.6 4.5 4.6	428 508 383 381 429 426 290 434 412	3 7 4 4 1 3 3	7820 9784 10055 10028 9610 10223 9453	360 420 369 434 430 445 410	1 7 4 1 3 2	10628 9475 10682 10818 11641 9777	486 435 437 441 437 437
	HOLSTEIN	1954 1955 1957 1958	1 1	13145 13460 12740 4690	3.6 3.4 3.2 4.1	464 459 411 192	14 1 1	12913 12760 12790 13540	471 465 479 498	1	12023 13952	453 489
	ALL BREEDS	1951 1952 1953 1954 1955 1956 1957 1958 1959	15	8180 8940 8083 9518 10148 9612 7968 8640 8843	5.2 5.7 4.8 4.4 4.4 4.5 4.2 4.3 4.7	428 508 383 403 435 426 321 374 412	3 11 5 4 4 3	7820 10922 10596 10028 11200 11053 9453	360 438 404 434 455 459 410	1 11 4 2 3 2	10628 10402 10682 10818 12797 9777 10175	486 442 437 441 463 437 458
011	GUERNSCY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	4 1 4 2 6 18 18 11 12 1 9 11 1	9693 10048 9730 6180 9708 9325 8926 9555 10777 9533 16696 9923 9433	4.1 4.7 4.8 4.7 4.7 4.8 5.0 5.0 5.1 4.9 4.8	400 471 461 296 456 441 427 477 543 481 521 480 437	1 1 2 10 12 8 12 6 8 7	11490 8100 8215 9695 9668 12126 10253 11157 11005 10449	431 373 388 455 462 628 588 572 596 514 474	16 8 12 7 7 6	9673 10164 10211 9734 9826 9634 9569	462 522 544 513 513 483 483
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	4 1 4 2 6 18 18 11 12 1	9643 10048 9730 6180 9708 9325 8926 9555 10777 9533	4.1 4.7 4.8 4.8 4.7 4.7 4.8 5.0 5.0	400 471 461 296 456 441 427 477 543 481 521	1 1 2 10 12 5 12 6 8	11490 8100 8215 9675 9668 12126 10253 11157 11065	431 373 388 455 402 628 588 572 556	10 8 12 7	9673 10164 10211 9734 9826	462 522 544 513 513

	0,001 2	.b b1 3100, 01	OKEED) C	, ILAK	01 11	ESHENTING						
CTUD	0,455	FORSHENING	0.550005	W.T.L. V	T. C.T.	CAT	305-DAY CONTI			YEARLY I		
STUD	8KEED	FRESHENING YEAR	RECORDS NO.	MILK L8.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LE.	FAT L8.	RECORUS NO.	MILK LB.	FAT LB.
		1959	8	9433	4.7	437	6	9222	474	6	9569	483
012	HOLSTEIN	1954	3	12293	3.6	441	3	13957	509	3	13178	487
		1955	7	15649	3.5	540	6	13893	506	0	13167	474
		1956	5	13536	3.5	478	5	13012	472	5	13771	500
		1957	3	13313	3.6	468	3	11663	4 15	3	12143	433
		1958 1959	4 3	11513 12837	3.4	388 410	4	12713 11833	516	2 2	11401 12099	402 417
		1424	3	12031	3.2	410		11022	425	2	12099	411
	ALL BREEDS	1954	3	12293	3.6	441	3	13957	509	3	13178	487
		1955	7	15649	3.5	540	6	13893	506	6	13167	474
		1956	5	13536	3.5	478	5	13012	4/2	5	13771	500
		1957	3	13313	3.6	468	3	11663	415	3	12143	433
		1958	4	11513	3.4	388	4	12713	516	2	11401	402
		1959	3	12837	3.2	410	3	11833	425	2	12099	417
013	GUERNSEY	1947	1	9350	5.4	506						
013	OULKNIET	1950	i	6880	4.3	294						
		1951	1	9460	5.1	483						
		1952	2	7700	5.2	397						
		1953	1	5610	4.7	261						
	1101 575	10.7		10:55	2	24.3						
	HOLSTEIN	1947	2	10420	3.5	357						
		1948 1949	1 3	11720 12213	3.6	417	1	13940	481			
		1950	6	16627	3.5	58ó	i i	14570	468			
		1951	10	14585	3.7	529	i	14830	500			
		1952	9	15142	3.5	521	4	14175	502			
		1953	7	16534	3.3	548	1	13390	460	3	14857	514
		1954	5	16302	3.5	568	5	17776	598	5	16197	558
		1955	5	17220	3.6	628	5	18548	648	5	17429	601
		1956	5	14170	3.0	506	5	15742	544	2	12017	413
		1957	2	18805	3.7	688	2	17400	624	2	17571	621
		1959	1	17860	3.5	625	1	19450	745			
	JERSEY	1947	5	8206	5.3	432						
	JEKSET	1948	Ţ,	7093	5.0	360						
		1949	6	7418	5.1	380						
		1950	3	5930	5.5	333	1	7140	354			
		1951	10	7875	5.2	411	3	7947	388			
		1952	15	7447	5.3	388	5	6530	318			
		1953	4	7298	4.9	350	1	7010	346	2	7009	361
		1954	7	7591	4.9	369	6	6430	310			
		1955	7	6597	5.2	337	7	6867	339	1	6889	350
		1956	5	6590	4.9	322	5	7248	360	5	6627	337
	ALL BREEDS	1947	8	8903	4.9	422						
		1948	5	8018	4.7	371						
		1949	9	9017	4.5	389	1	13940	401			
		1950	10	12443	4.2	481	2	10355	421			
		1951	21	11146	4.5	471	4	9668	416			
		1952 1953	26 12	10130 12545	4.6 3.9	434 458	9 2	9928 10200	400 403	L	11710	453
		1954	12	11221	4.3	452	11	11587	441	5 5	11718 16197	558
		1955	12	11023	4.5	458	12	11734	468	12	11281	455
		1956	10	10380	4.3	414	10	11495	452	7	8167	359
		1957	2	18805	3.7	688	2	17400	624	2	17571	621
		1959	1	17860	3.5	625	1	19450	745			
0.17	CHEONESY	1761		21.00	1, 4	170		71.4.0	74.0			
014	GUERNSEY	1951 1952	1	3480 8350	4.U	138 371	1	7480	359 248			
		1953	1	4860	4.4	214	i	5560 7580	377	1	8121	338
		1957	2	8820	4.7	413	2	9840	463	i	8557	382
		1958	2	11335	4.4	490	1	10200	434	i	10595	467
		1959	ī	7230	4.7	343	i	9650	415	i	8540	387
			_	71			_					
	ALL BREEDS	1951	1	3480	4.0	138	1	7480	359			
		1952 1953	1 1	8350 4860	11 - 11 11 - 11	371 214	1	5560 7580	248 3 77	1	გ 121	38E
		1957	2	8820	4.7	413	2	9840	463	i	8557	382
		1958	2	11335	4.4	490	1	10200	434	i	10595	467
		1959	ī	7230	4.7	343	i	9650	415	i	8540	387
016	HOLSTEIN	1947	20	12370	3.9	480	2	14325	471			
		1948	14	12268	3.8	471	5	13978	535			
		1949	15	13597	3.9	523	5	14232 12818	552			
		1950 1951	11	13775 12783	3.8 4.2	524 535	4 3	12816	4 8 6 5 2 0			
		1952	2	13485	4.2	559	2	13690	523			
		1953	2	14325	4.2	605	2	14590	533	1	12840	487
		1954	ī	13010	3.4	504	i	13290	502	i	12797	477
		1755	2	11110	3.8	424	2	10900	395	۷		409
		1956	1	12090	3.1	450	1	11510	414	1	11870	432

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAT	305-DAY CONTE RECURDS		AV. FAT	YLAKLY I RECORDS		RAGE
		YEAR	NO.	L8.	PCT.	L8.	NO.	LB.	LB.	NO.	LB.	TR.
	ALL BREEDS	1947 1948	20 14	12370 12268	3.9 3.8	480 4 71	2	14325 13978	471 535			
		1949	15	13597	3.9	523	5	14232	552			
		1950	11	13775	3.8	524	4	12818	486			
		1951	4	12/83	4.2	535	3	13800	520			
		1952	2	13485	4.2	559	2	13690	523	1	12840	487
		1953 1954	2	14325 13010	4.2 3.9	605 504	2	14590 13290	533 502		12797	477
		1955	2	11110	3.8	424	2	10900	395	2	11811	409
		1956	1	12090	3.7	450	Ĩ	11510	414	ī	11910	432
018	JERSEY	1947 1948	5 5	7494 9216	5.5 5.1	410 465	2	6480	362			
		1946	- J	5953	5.1	305						
		1950	3	6880	5.7	394						
		1951	2	B5/0	5.4	452						
		1952	2	7145	5.5	390						
		1954	!	6290	5.3	333						
		1955 1956	1 2	6590 6320	5.2 5.0	342 311						
		1958	1	4800	5.0	237						
	ALL BREEDS	1947	5	7494	5.5	410	2	6480	362			
		1948 1949	5 4	9216 5953	5.1	465 305						
		1950	3	9880	5.1 5.7	394						
		1951	2	8570	5.4	452						
		1952	2	7145	5.5	390						
		1954	1	6290	5.3	333						
		1955 1956	1 2	6590 6320	5.2	342 311						
		1958	1	4800	5.0 5.0	237						
075	HOLSTEIN	1954	47	11495	3.9	442		12198	467	32	11904	451
		1955	109	11887 12449	3.7	442 467	91	12115	447 459	85	11509 12075	425 446
		1956 1957	169 399	12449	3. გ 3. გ	468	133 327	12402 12435	464	106 296	12402	440
		1958	810	13192	3.8	497	712	12907	480	549	12352	467
		1959	1446	12901	3.8	485	1394	12458	462	1207	12637	474
		1960	287	12611	3.7	404	201	12325	456	194	12703	470
	JERSEY	1948	3 5	7750 8518	5.0 5.0	388 426						
		1950	4	9425	5.2	485						
		1951	3	9620	5.2	500						
		1952	6	8782	5.1	441						
		1953	26	7102	5.2	368	11	8459	4 32	. 5	7774	407
		1954 1955	40 40	7667 7949	5.2 5.2	39ช 413	20 19	7559 7970	379 401	20 17	7221 7534	364 380
		1956	35	7421	4.9	363	17	8596	435	17	8366	422
		1957	66	7448	5.0	374	32	8897	450	21	8063	403
		1958	85	7933	5.2	409	29	5212	422	25	8156	413
		1959 1960	131 36	8244 8765	5.1 5.1	4 I S 4 4 B	82 26	7964 82 7 6	40B 425	85 16	7959 8492	405 442
	ALL DOFFERS						20	0210	423	10	0472	772
	ALL BREEDS	1948 1949	3 5	7750 8518	5.0 5.0	388 426						
		1950	4	9425	5.2	485						
		1951	3	9620	5.2	500						
		1952 1953	6 26	8762 7102	5.1 5.2	44 I 368	11	8459	432	5	7774	407
		1954	20 87	9735	4.5	422	61	10677	438	5∠	10103	417
		1955	149	10830	4.1	435	110	11399	439	100	10833	417
		1956	204	11586	4.0	449	150	11971	457	123	11562	442
		1957	465	11612	4.0	454	359	12119	462	323	12039	457
		1958 1959	895 1577	12693	3.9 3.9	488	741	12726 12209	478	574 1297	12169	464 469
		1960	1577 323	12514 12183	3.8 3.8	479 462	1476 287	11958	459 453	129∠ 210	12329 12382	468
			323		J. 3	.52	231		. 33	210	.2302	,00

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD BREED	FRESHENING YEAR	RECORDS NO.	MILK	TEST PCT.	FAT LB.	305-DAY CONT RECORDS NO.		AV. FAT LB.	YEARLY I RLCURUS NO.		RAGE FAT LB.
001 GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 28 51 98 132 194 205 195 157 120 117 52	7803 7986 8215 8306 8992 8754 9167 9043 8521 8693 9096 8621	4.9 4.7 4.8 4.8 4.9 4.7 4.8 4.8 4.7	383 375 395 394 434 416 433 430 406 409 435 401	1 5 15 54 107 175 190 175 134 96 168	8310 9396 8361 8715 9152 8969 9529 9971 9560 10410 9641 9062	402 426 385 407 433 423 443 463 453 457 443 421	91 153 161 170 136 77 54	9011 6914 7487 7296 9096 9381 9707 9581	423 423 441 430 431 432 454 449
HOLSTE IN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	547 830 1061 1380 1/12 2023 2303 2571 2762 2910 3445 5228	11950 12131 12260 12400 12070 12189 12407 12132 12218 12372 1251 12573 12582 7460	3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.8 3.8 3.8 3.8	434 454 460 447 453 461 452 456 461 480 4475 303	22 61 160 309 582 1018 1741 2165 2424 2639 2690 2866 5086 1680	12131 12759 13353 13080 12547 12548 12473 12302 12511 12863 12767 12556 12465 12465 12457	429 472 483 479 462 461 459 453 461 478 480 472 470 464	1429 1899 2185 2478 2344 3261 736	12095 12167 12181 12304 12431 12343 12779 12344 12233	443 449 449 455 464 485 465
JEKSEY	1952 1953 1954 1955 1956 1957 1958 1959	3 13 7 5 4 7 15 51	8420 8295 8057 8040 8060 8141 8199 7756 8061	4.8 5.2 5.3 5.1 5.7 5.4 5.1 5.0 5.1	405 427 423 409 462 440 410 389 410	1 6 2 1 3 9 42 13	6490 7655 7712 7250 6670 8247 6462 8260 7915	351 390 403 374 361 412 423 411 409	9 6 2 1 3 9 20	7912 7672 7227 7488 7630 7824 8220 8100	404 401 373 366 387 406 420 413
BROWN SWISS	5 1951 1952 1953 1954 1955 1956 1957 1958 1959	54 148 201 265 285 313 409	10557 11034 11212 11075 11088 11349 11008 11188 11172 10861	4.3 4.2 4.2 4.1 4.2 4.2 4.2 4.2	444 465 465 457 458 475 469 469 471 455	2 26 104 158 215 223 235 191 367 149	11880 11363 11565 11498 11629 12031 11674 11480 11174 10810	480 403 475 470 472 493 402 475 464 448	92 135 190 207 216 181 219 56	10777 10865 11349 11379 11510 11345 16623 10317	442 446 463 465 472 466 443 430
M. SHORTHO	RN 1954 1955 1956 1957 1958 1959 1960	2 4 5 11 7 11 4	10390 7955 7438 7703 8451 9141 10148	3.9 3.8 4.4 3.8 3.7 4.0 3.0	403 300 323 296 316 361 374	2 3 5 8 8 3	8330 8880 10282 8366 8750 9026 9573	303 337 388 305 313 342 350	/ 5 7 4 4 3	5853 6867 7384 6110 6554 9264 9621	226 252 281 228 240 360 347
ALL BREEDS	5 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	795 547 834 1089 1440 1867 2316 2707 3050 3251 3398 3996 5914 2013	11950 12131 12239 12286 11924 11946 12113 11800 11902 12070 11856 12336 12273 7460	3.6 3.6 3.7 3.7 3.6 3.8 3.8 3.8 3.9 3.9 3.9	434 441 458 446 459 459 450 454 462 457 476 470 303	22 61 161 314 599 1099 11960 2506 2634 3043 3070 3166 5611 1694	12131 12759 13321 13021 120440 12326 12224 12004 12237 12629 12527 12408 12308 12308 12204 10875	429 472 483 478 460 458 458 452 461 477 477 478 470 406	1621 2195 2541 2766 2840 2015 3558 825	11824 11842 11938 12040 12181 12162 12570 12076 12233	441 447 449 454 463 481 462 470
002 GUEKNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957	5 25 57 84 120 133 149 107 76 50	8750 8756 7977 8158 8274 8527 8375 8496 8331	4.7 4.8 4.8 4.8 4.7 4.7 4.7	408 422 383 393 395 400 391 403 400	3 5 19 41 95 123 140 99 68	11190 8038 8371 8419 8433 8831 8869 9192 9823	563 430 420 399 395 409 417 419 447	80 117 125 80 65	8476 8784 8765 8618 9403	398 409 411 403 430

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUU BREED	FRESHENING YEAR 1959 1960	RECORDS NO. 52 23	MILK LB. 8805 7870	TEST PCT. 4.8 4.6	FAT LB. 415 367	305-DAY CONT RECORDS NO. 49 23	EMPOKARY MILK LB. 9386 8836	AV. FAT LB. 419 376	YEARLY H RECORUS NO. 20 9	HERU AVI MILK LB. 9973 8420	FAT LB. 449 388
HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	76 1 127 1 176 1 318 1 318 1 432 1 711 1 876 1 775 1 656 1 777 1 1204 1	10201 1038 1558 2049 1613 11595 1470 1418 1596 1440 1899 2316 2202	3.6 3.6 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7	363 397 415 437 433 432 425 421 429 424 441 460 451	4 15 38 62 192 381 670 834 717 579 648 1146 351	12130 12356 12215 12633 12240 11834 11572 11747 12066 11968 12108 12441 12007	440 452 439 448 438 426 432 447 443 455 461	330 559 747 683 551 483 713 126	11915 11500 11724 11776 11834 11904 12510 12111	437 425 433 435 441 444 464
JEKSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 11 39 66 105 114 125 103 90 87 86 127	8050 7761 7607 7706 7588 7661 7913 7930 7768 7584 7448 8019 7719	5.4 5.3 5.2 5.2 5.2 5.1 5.1 5.1 5.2 5.3	437 410 396 395 392 399 402 404 393 381 419 404	1 2 5 12 37 59 82 64 68 48 53 105	7540 7915 7372 7861 7326 7388 7706 8031 8360 8402 7911 7861 7757	400 481 435 428 395 387 405 415 430 427 405 409	45 67 58 50 50 48 41 20	7664 7805 7967 7863 7949 8044 8605 8107	405 409 413 406 408 414 448 415
BROWN SWISS	1953 1954 1955 1956 1957 1958 1959	17 1 28 24 1 41 54 1 95 1	0135 0104 9183 0770 9940 0788 1022 9948	4.3 4.1 4.2 4.1 4.1 4.2 4.2 4.1	436 407 384 437 412 447 460 409	1 8 16 18 29 23 73 34	13370 11396 10776 10560 11189 11282 11326 11013	564 444 436 430 461 472 467 455	1 12 17 17 17 28 23 51	12622 y575 10584 10871 10790 11228 11064 10118	506 393 440 447 439 466 452 421
M. SHORTHORN	1954 1955 1956 1957 1958 1959 1960	կ 1 4	7/30 7753 5170 7505 9461 8427 8190	4.0 3.8 3.8 3.9 3.9 4.2 3.0	311 300 195 295 372 357 298	3 2 2	6280 9125 9850 8870 7930	241 363 392 371 315	1 2 3 2	5570 7467 7673 8361	216 286 311 310
ALL BREEDS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	92 1 191 1 299 1 507 1 668 1 987 1 1160 1 997 1 864 1 975 1	0070 0522 0384 0314 0207 0323 0595 0651 0891 0666 1241 1734	3.7 3.9 4.1 4.2 4.2 4.0 4.0 4.0 4.0 3.9 3.9	368 399 412 418 418 420 418 417 433 454 437	5 20 48 113 270 536 884 1056 902 727 761 1375 455	11212 11737 11275 11409 10987 10745 10839 11120 11441 11492 11657 11916	432 472 437 447 433 425 422 429 443 443 450 455	450 756 949 830 697 980 831 170	10893 10714 11075 11193 11269 11438 12152 11138	427 420 429 431 437 441 462 440
003 AYRSHIRE	1952 1953 1954 1955 1956 1957 1958 1959	11 40 72 104 92 90	7355 9126 8436 8280 8288 8303 8158 8646 8117	4.1 4.0 4.1 4.1 4.1 4.0 4.0 3.9	301 367 342 336 339 338 328 342 318	2 6 31 56 80 76 75 83	9385 9402 9131 9668 9611 8904 9706 9279 9032	381 371 362 385 387 358 384 367 357	4 25 51 71 60 58 84 31	9333 9143 9426 9435 9413 9657 9482 9742	370 364 372 378 373 388 393 384
GUERNSEY	1952 1953 1954 1955 1956 1957 1958 1959	293 732 1034 895 878 820 645	8203 8183 8004 7958 8106 8056 8123 8439 8553	4.8 4.7 4.7 4.8 4.8 4.8 4.6	391 384 379 377 387 383 381 392 393	21 241 672 930 740 731 643 597 169	8297 8140 8448 8659 8963 8897 8830 8765 8916	407 388 401 408 421 415 406 401 402	173 572 817 565 555 482 540 152	6420 8500 8696 6934 8748 8870 9323 9522	404 405 412 422 413 413 431
HOLSTEIN	1952 1953 1954		1892 11865	3.7 3.7	442 441	61 343	11801 12163	424 442	244	12098	437

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8KEED	FRESHENING YEAR 1955 1956 1957 1958 1959	RECORDS NO. 2039 2779 4259 6922 10267 2425	MILK LB. 11817 11923 11869 12336 12445 12128	TEST PCT. 3.8 3.7 3.7 3.7 3.7	FAT L8. 443 444 442 458 462 450	305-DAY CUNT RECURDS NO. 1843 2386 3737 6135 10036 2272	EMPORARY MILK LB. 12085 12282 12248 12496 12432 12192	AV. FAT LB. 445 454 453 464 461 453	YEARLY PRECURDS NO. 1635 1900 3263 4963 8706 1869	MILK LB. 12103 12302 12188 12367 12688 12704	ERAGE FAT L8. 443 455 451 460 471 473
	JERSEY	1952 1953 1954 1955 1956 1957 1958 1959	1 4 20 25 34 63 238 396 163	5230 6448 6877 6736 7041 6951 7609 7333 7126	5.1 5.3 5.3 5.4 5.2 5.3 5.4 5.3	267 340 362 365 369 366 406 389 374	1 13 13 18 35 116 266 128	5440 7028 7661 8098 7968 7992 7726 7626	314 381 397 423 405 419 403 397	1 12 11 12 33 91 227 75	7728 7357 8075 7777 7651 8210 8132 7868	411 389 418 398 398 427 426 412
Вк	OWN SWISS	1952 1953 1954 1955 1956 1957 1958 1959	7 35 75 80 124 184 330 384	10196 10434 10155 10409 10627 10296 10766 10533 10411	4.1 3.9 4.1 4.0 4.1 4.1 4.1	415 411 416 419 434 419 442 434	1 21 47 56 76 109 161 203 85	14050 11198 11064 10798 10746 10469 10681 10883 10376	556 446 443 432 432 425 434 442 420	20 43 53 53 105 150 239 62	10249 10935 10274 10522 10269 10657 10587	407 437 412 428 412 435 441 439
М.	SHORTHORN	1955 1956 1957 1958 1959 1960	1 3 12 25 19 15	8510 7943 6703 7853 8744 8475	3.9 3.7 3.9 3.9 3.9 3.8	329 296 256 305 338 320	1 4 12 12 9	8120 8843 7649 8722 7036	301 328 285 326 256	1 5 6 11 7	7717 6207 8082 7341 7007	281 235 312 350 260
Δ	LL BREEDS	1952 1953 1954 1955 1956 1957 1958 1959	122 712 1919 3251 3939 5488 8425 11802 2938	10607 10207 10142 10437 10874 11078 11673 11957 11493	4.1 4.2 4.2 4.1 4.0 3.9 3.9 3.8 3.9	422 415 412 418 427 428 447 454 439	85 612 1760 2898 3301 4692 7142 11257 2696	10905 10508 10585 10894 11414 11596 12014 12063 11657	420 420 424 432 444 445 456 455 444	442 1525 2567 2602 4021 5750 9807 2196	10540 10561 10911 11434 11577 11931 12313 12199	422 424 431 445 443 454 466
004	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957	2 6 15 15 14 8 7 2 2	8120 7960 8333 8392 9128 8240 8149 6725 7885	5.3 4.7 4.8 4.9 4.8 4.7 4.6 4.5	426 372 397 409 432 387 368 303 341	3 8 12 13 8 7 2 2	9460 9249 8696 8508 7921 8323 5795 9435	477 431 424 425 381 408 300 447	12 13 7 6 1 2	8888 8922 8784 8380 8927 8971	419 430 427 400 432 411
м.	SHORTHORN	1950 1952	1 1	7850 6720	3.6 3.8	285 258						
Α	ALL BREEDS	1950 1951 1952 1953 1954 1955 1956 1957	3 6 16 15 14 8 7 2 2	8030 7960 8232 8392 9128 8240 8149 6725 7885	4.7 4.7 4.9 4.8 4.7 4.6 4.5	379 372 389 409 432 387 368 303 341	3 8 12 13 6 7 2 2	9460 9249 8696 8508 7921 8323 5795 9435	477 431 424 425 381 408 300 447	12 15 7 6 1 2	8888 8922 8784 8380 8927	419 430 427 400 432 411
005 BH	OWN SWISS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	2 10 12 15 22 23 14 13 12 8	11280 9850 11613 10927 12636 12108 11344 11570 10893 11706 12690 10505	4 - 4 4 - 3 4 - 2 4 - 1 4 - 2 4 - 3 4 - 1 4 - 1 4 - 6 4 - 1	490 419 485 452 533 519 477 447 478 579 428	5 4 5 15 15 9 8 8 5	10584 10085 11042 11177 11369 11893 12010 11873 11914 9960 10420	425 413 455 462 466 489 484 474 487 388 439	12 7 4 0 4 1	11530 11559 11336 10757 11140 7739 10115	489 493 490 446 462 318 422
£	ALL BREEDS	1948 1949 1950	2 10 12	11280 9850	4 • 4 4 • 3	490 419	5	10584	425			

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHLNING

STUD	BREED	FRESHENING YEAR	RECDRDS NO.	MILK LB.	TEST PCT.	FAT L8.	305	-DAY CONT	EMPORARY MILK LB.	AV. FAT LB.	YEARLY RECORDS NO.	HERO AVI MILK LB.	FAT LB.
		1951	15	10927	4.1	452		5	11042	455		200	200
		1952 1953	22 23	12636 12108	4.2 4.3	533 519		15 15	11177 11369	462 466	12	11530	489
		1954	14	11344	4.2	477		9	11893	489	1	11559	493
		1955	13	11570	4.3	497		ь	12010	484	4	11336	490
		1956	12	10893	4.1	444		8	11873	474	6	10757	446
		1957 1958	8 1	11706 12690	4.1	478 579		5 1	11914 9960	48 7 388	4 1	11140 7739	462 318
		1959	2	10505	4.1	428		i	10420	439	i	10115	422
007	GUERNSEY	1947	11	8477	4.6	366							
		1948 1949	2	9450 9823	3.8 4.8	358 462		2	11110	500			
		1950	ıĭ	8681	4.7	403		2	10670	533			
		1951	14	8749	4.8	416		3	9467	480			
		1952	11	8372	4.8	399		1	8880	432		. 0.71	1.1.0
		1953 1954	12 13	8781 9027	4.5	395 417		2 4	84∠5 9065	394 446	<u>ک</u> ک	6971 8737	440 429
		1955	5	8920	4.7	417		2	9145	427	2	8600	411
		1956	9	9148	4.8	443		3	1068	431	1	8622	421
		1957	5	8850	4.5	397		2	8315	409	1	8785	410
		1958 1959	կ 3	9958	4.7	474		1 2	8940 9155	373	1 2	7167 8846	313 392
		1960	1	8393 8 7 40	4.5	380 379		1	10750	415 503	2	0040	342
	HOLSTEIN	1953	1	16830	3.3	556					!	11500	413
		1954 1955	1	14350 18260	3.5 3.4	502 619		1	12240 10100	450 400	1	1291 7 13952	476 507
		1957	i	21160	3.4	714		i	14010	537	i	14094	547
	ALL BREEDS	1947	11	8477	4.6	386							
		1948	2	9450	3.8	358							
		1949	.6	9323	4.8	462		2	11110	500			
		1950 1951	11 14	8681 8749	4.7 4.8	403 416		2	10670 9467	533 480			
		1952	11	8372	4.8	399		ī	0883	432			
		1953	13	9400	4.4	407		2	8425	394	ತ	9814	451
		1954	14	9407	4.6	423		5	9700	447	5	9573	439
		1955	6	10477	4.5	451		3	9463	418	3	10384	443
		1956 1957	9 6	9148 10902	4.8 4.3	443 450		3	8667 10213	431 451	1 2	3622 11440	421 479
		1958	4	9958	4.7	474		ĩ	8940	373	1	7107	313
		1959	3	8343	4.5	380		2	9155	415	2	8846	392
		1960	1	8740	4.3	3 79		1	10750	503			
800	GUERNSEY	1950	2	8430	5.3	443		!	11630	572			
		1951 1952	4 2	9040 10915	4.7 4.9	428 525		1 2	10790 9130	575 495			
		1953	2	10890	5.0	535		1	10640	576	2	9625	506
		1954	1	9650	5.1	490		1	12090	641	1	10355	543
		1755	2	12380	5.0	608		2	11385	574	2	10742	550
		1956 1957	2 2	10625 10580	4.9 4.7	516 494		2 2	11010 11035	536 524	2 2	10884 10513	556 529
		1958	1	10560	4.4	464		1	10570	442	1	10791	487
	JERSEY	1953	1	6760	6.1	415		1	6650	338	1	7129	375
		1954 1955	3 4	7807 5110	5.3	414 2d7		2 2	8080 7510	395	1	6965	368
		1956	2	5780	5.6 6.3	366		2	1510	388			
		1957	4	5508	6.0	329		1	8600	505	1	2987	174
		1958	21	7520	5.4	403		11	7991	413	5	8042	434
		1959	20	8719	5.4	438		13	7527	393	12	7405	4 17
		1960	15	7984	5.2	347		12	7236	375	7	8110	431
	ALL BREEDS	1950 1951	2 4	8430 9040	5.3 4.7	443 428		1	11630 10790	572 575			
		1952	2	10915	4.9	525		2	9130	495			
		1953	3	9513	5.3	495		2	8645	457	ز	8793	462
		1954	4	8268	5.3	433		3	9417	477	7	5660	456
		1955 1956	6 4	7533 8203	5.4	395 441		4 2	9448 11010	401	2	10742	550
		1957	6	7198	5.0	384		3	10223	536 517	2 3	10834 8004	556 410
		1958	22	7658	5.4	400		12	8212	416	Ó	8500	443
		1959	20	8719	5.4	438		13	7527	393	12	1405	417
		1960	15	7984	5.2	399		12	7236	375	7	8110	431

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIKES IN SERVICE IN ARTIFICIAL BREEDING UNGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	0.000						206 UAV CONT	EMODO LOY	A 1/	VEAULV	Enc. Aug	OACE
STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK L8.	TEST PCT.	FAT L8.	305-DAY CONT RECORDS NO.		FAT LB.	YEARLY F RECURDS NO.		FAT L8.
000	GUERNSEY	1947 1949	6	7967 7150	5.1 5.4	407 383	2	7615	407			
	HOLSTEIN	1947 1948 1949 1951	5	11115 11692 11433 12295	3.4 3.4 3.3 3.7	376 400 376 458						
	JEKSEY	1947 1948 1949 1950 1951 1952	3	8123 9484 7916 8405 11613 10335 9760	5.4 5.1 5.4 5.2 5.1 5.1	441 484 428 437 594 524 548	1 1 1 1	6980 8750 9010 9370 8730	331 441 464 478 476	1	9974	522
	ALL BREEDS	1954 1947 1948 1949 1950	39 10 9 4	9710 10588 9003 8405	5.4 4.3 4.7 5.2	599 401 442 406 437	1 2 1 1	7615 6980 8750	469 407 331 441	·	7714	322
		1951 1952 1953 1954	5 4 2 1	11886 10335 9760 11160	4.6 5.1 5.7 5.4	539 524 548 599	1 1 1	9010 9370 8730 8540	464 478 476 469	1	9974	522
001	AYRSHIRE	1959 1960	16 3	9488 11067	4.1	39 I 464	16 3	9997 11583	405 460		11741 11947	471 481
	SUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	13 31 100 142 221 330 382 449 302 273 281 371 394	8542 7973 8119 8078 7988 8328 8021 8019 8125 7866 7840 8442 8667 8453	4.8 4.8 4.9 4.9 4.9 4.9 4.9 4.9 4.8	408 384 389 389 406 390 390 394 382 376 408 422 406	1 5 21 50 137 222 393 275 254 253 341 381 109	12530 11084 8807 8767 9116 8795 8717 8746 8662 8995 9437 9389 9203	533 495 405 410 424 405 400 402 397 405 419 425 416	178 322 245 177 225 59 347 110	9039 8755 8748 8983 8976 9650 9973 9734	416 409 406 421 408 434 450 445
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	30 141 369 537 763 1080 1296 1842 1750 2176 2746 4034 5814 1604	10981 11932 12258 12173 12161 12399 12108 12580 12027 11893 12836 12977 12261 8843		379 419 435 435 436 446 443 435 453 438 438 438 438 438 438	5 36 81 206 420 865 1630 1605 2040 2548 3825 5760	12204 13290 12649 12515 12671 12286 12040 12477 11821 11690 12377 12646 12110	452 488 457 456 461 447 436 451 433 456 464 441	624 1306 1354 1723 2286 605 5177 1531	11999 11987 12229 12478 12227 12473 13278 13094	439 438 444 458 449 462 486 480
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 28 56 98 103 109 103 126 79 99 118 181 183 68	7626 7123 7988 8046 7840 7997 8105 8077 8183 7381 7046 8128 7899 7239	5.7 5.2 5.1 5.2 5.2 5.1 5.2 5.1 5.1 5.0	431 366 404 420 401 411 411 415 372 378 410 401 303	2 4 7 14 30 40 81 43 56 59 93 119	7430 7935 8279 8201 8818 6140 7691 8359 7295 6937 7744 7756 8096	385 426 421 417 438 416 389 418 365 350 391 400 411	25 64 42 52 56 9 107 40	8107 7695 8454 7904 7711 7206 8307 8200	413 388 428 405 391 379 421 415
,	8ROWN SWISS	1952 1953 1954 1955 1956 1957 1958 1959	2 2 4 6 17 18 57 59 20	9030 8865 10005 9692 9825 10080 11911 11381	4.5 4.7 3.9 4.0 3.8 4.0 3.9	404 415 383 388 370 398 466 445	1 2 4 5 15 8 15 27	7990 9775 10225 10634 9510 10229 11141 11197	370 412 399 403 364 389 420 440	2 3 4 15 0	8655 9592 9933 10986 10319	370 392 383 426 400

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LE.	305-DAY CONTE RECORDS NO.		AV. FAT LB.	YLARLY P RECURDS NO.		EKAGE FAT L8.
	M. SHORTHORN	1957 1958 1959	1 2 1	9750 12640 7800	3.9 3.7 3.7	379 468 288	1	9750 10760	367 367	1	8535	312
	ULD DAN.	1960 1954	1	12610 6840	ن.6 4.3	455 293	1	11160	396	1	9668	342
	RED DANE	1954 1955 1957 1958 1959	1 2 5 5 2	10150 9865 11016 10758 7965	4.3 4.3 4.0 3.9 4.2	442 423 434 416 340	1 3 3	10190 10287 10673	404 405 332	ک ن ن	10454 12404 10933 12633	400 471 416 492
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	48 200 525 777 1087 1521 1783 2422 2138 2565 3166 4650 6472 1818	9971 10645 11014 10918 10903 111907 11107 11134 11779 11390 11363 12269 12545 11802 8643	4.1 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.8 3.8 3.8 3.8	392 406 423 425 425 429 429 429 425 459 466 437 348	8 45 169 270 588 1129 2108 1928 2305 2070 4278 6306 1652	11051 12569 11628 11597 11638 11443 11250 11848 11360 11349 12036 12343 11811	446 483 445 445 451 438 423 427 421 460 438	82 y 1695 1645 1967 2580 676 5671 1701	11238 11207 11608 12033 11836 12156 12971 12735	433 431 438 453 444 456 482 475
002	GUERNSEY	1947 1948 1949 1950 1951 1953	8 5 1 4 1 1	7766 8870 8000 7540 7180 6320	5.1 5.7 5.0 4.9 4.3	401 452 458 363 350 273	1	9390	473	1	8567	407
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955	37 16 15 9 5 3 3 2 3	12002 12523 12904 12922 13178 13093 14073 14515 14623 10040	3.8 3.8 3.7 3.7 3.9 3.8 3.8 3.7	450 475 476 475 487 519 533 553 553 538	1 1 3 2 2 2 2 3 3 1	10950 13500 14477 11765 16740 15125 13887 14500 12957 11630	451 511 527 446 588 598 510 547 481 435	2 2 2 1	12739 13222 13974 13778	485 512 522 492
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955	45 21 16 13 6 3 4 2 3	11249 11653 12598 11266 12178 13093 12135 14515 14623 10040	4.0 4.1 3.8 4.1 3.9 3.9 3.9 3.8 3.7 3.5	441 470 475 440 464 519 468 553 538 352	1 2 3 2 2 2 3 2 3 1	10950 11445 14477 11765 16740 15125 13867 14500 12957 11630	451 492 527 446 588 598 510 547 481 435	3 2 2 1	114ø1 13222 13974 13778	459 512 522 492
003	JEKSEY	1947 1948 1949 1950 1951 1956 1957	13 8 7 5 1 1 1	7849 7940 8303 8008 9790 10850 8270 9880	5.3 5.0 5.0 5.4 4.5 4.5	419 410 420 405 530 488 375 453	1 1 1	7470 8020 ช 140	383 411 429	1	9407 8306	500 440
	ALL 8REEDS	1947 1948 1949 1950 1951 1956 1957	13 8 7 5 1 1 1	7849 7940 8303 8008 9790 10850 8270 9880	5.3 5.0 5.0 5.4 4.5 4.5	419 418 420 405 530 488 376 453	1 1 1	7470 8020 8140	383 411 429	i 1	9407 8306	500 440
004	GUERNSEY	1947 1948 1949 1950 1951 1952	3 2 5 1 1 3	7627 7290 7408 7240 9110 8217 7640	5.2 5.3 5.1 5.2 4.8 5.2 4.9	396 385 375 373 440 424 373						
	HOLSTEIN	1947 1948	15 7	11643	3.5	404						

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							305-DAY CONTI	MPORAKY	/ AV-	YEARLY H	HERD AV	ÉRAGE
STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECURES	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NO -	LE.	L8.	NO.	LB.	L8.
		1949	9	13272	3.4	450						
		1950	9	14352	3.4	488	2	12210	432			
		1951	10	13325	3.3	438	2	11945	450			
		1952	9	14458	3.3	482	3	14280	514			
		1953	7	11961	3.4	405	2	12725	471	2	13162	482
		1954	4	12183	3.3	400	3	12027	441	3	11594	438
		1955	2	11495	3.4	385	2	12085	452	4	11860	434
		1956	3	12280	3.6	444	2	12885	443	2	11930	424
		1957	1	17950	3.4	606	1	12460	446	1	11925	447
	JERSEY	1947	7	8327	5.5	454	2	8710	417			
		1948	8	9301	5.1	472	2	6270	343			
		1949	10	8701	5.2	450	3	8847	459			
		1950	7	9150	5.2	476	2	8930	484			
		1951	7	8190	5.3	427	2	8470	434			
		1952	6	9563	5.1	487	1	8450	483			
		1953	3	11090	4.8	532	2	8400	474	5	9974	522
		1954	1	8890	5.4	478	1	8910	489			
		1955	1	13010	4.9	637	1	10400	560	1	9232	500
	ALL BREEDS	1947	25	10232	4-3	417	2	8710	417			
		1948	17	10/29	4.3	447	2	6270	343			
		1949	24	10146	4.5	434	3	8847	459			
		1950	17	11792	4.3	476	4	10570	458			
		1951	18	11094	4.1	434	4	10208	442			
		1952	18	11786	4.2	474	4	12823	507			
		1953	11	11331	3.9	437	4	10563	473	c	11249	506
		1954	5	11524	3.7	415	4	11248	453	3	11594	458
		1955	3	12000	3.9	469	3	11523	488	5	10984	456
		1956	3	12280	3.6	444	2	12885	443	2	11930	424
		1957	1	17950	3.4	606	l	12400	446	1	11925	447

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIR.S IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, 8Y BREED, BY YEAR OF FRESHENING

STUD	BKEED	FRESHENING YEAR		ILK TES		305-BAY CONT RECORDS NO.		AV. FAT LB.	YEARLY H RECURDS NO.	HERD AVI MILK LB.	FAT Lb.
000	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954	7 88 6 77 5 98 2 105 2 100 2 86 1 74	366 4. 737 4. 322 4. 330 4.	.7 361 .9 470 .7 495 .8 482 .7 399 .9 369	1 1 2 2 2 2 1	9270 10550 9060 7620 7980 8235 10520 8140	461 479 425 390 368 399 493 420	2 1 1	7/12 9178 9592	346 456 437
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	44 12: 31 12: 18 12: 16 11: 9 13: 7 13: 8 12: 5 13: 2 10:	320 3. 330 3. 382 3. 382 3. 311 3. 331 3. 475 3. 318 3.	.7 504 5 438	19 9 9 10 8 5 7 4 1	12918 12499 12696 12712 12117 12033 11420 11551 13300 14770 11490	463 444 465 466 449 450 423 416 498 563 451	1 (1	11107 11565 13732 13178	402 424 513 511
	JEKSEY	1947 1948 1949 1951	3 77 2 88		.9 380 .9 43∠						
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	54 116 39 112 23 122 19 115 11 124 9 125 9 116 6 127 2 105	520 3. 447 3. 295 3. 533 3. 481 3. 514 3. 920 3. 770 3. 535 3.	.8 413 .8 432 .8 429 .6 456 .8 433 .9 487 .7 430 .6 454 .5 381	19 10 10 10 12 10 <i>t</i> 8 5 1	12918 12176 12461 12347 11368 11222 10510 11423 12268 14770 11490	463 446 467 462 439 434 416 426 483 563 451	0 8 5 1	9976 11267 12904 13178	384 428 498 511
001	GUERNSEY	1949 1950 1951 1953 1954 1955	3 74 2 7 2 8 4 6.	477 4. 705 4. 705 4. 338 5.	.9 388 .8 357 .8 369 .5 390 .2 326 .5 366	2 4 1	7760 6658 10560	376 328 381	<u>2</u> 3	/390 7 638	350 370
	HOLSTEIN	1953 1954 1955 1956 1957 1958 1959	4 86 6 106 9 9 7 11 23 136 27 13	768 3. 790 3. 124 3. 104 3. 557 3. 334 3.	1 439 .7 303 .3 357 .7 332 .6 394 .5 479 .6 477	1 3 4 9 6 22 27 4	12150 11017 10093 12668 12443 12874 13179 12568	430 386 370 453 461 466 474 537	ไ 1 5 8 4 19 22 5	12317 10802 10490 10846 11344 12109 13324 13067	438 388 370 390 432 437 488 469
	ALL BREEDS	1949 1950 1951 1953 1954 1955 1956 1957 1958 1959	3 77 2 7 4 116 8 7: 7 107 9 9 7 11 23 13. 27 13.	477 4. 705 4. 545 3. 553 4. 406 3. 124 3. 104 3. 657 3. 334 3.	.9 388 .8 357 .2 369 .6 414 .5 319 .7 332 .6 394 .5 479 .6 477	3 7 5 9 6 22 27 4	9223 8514 10186 12608 12445 12874 13179 12588	394 352 372 453 461 466 474 537	3 4 9 3 4 14 22 5	9032 8429 10490 10846 11344 12109 13624 13067	379 375 370 390 432 437 488 469
002	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	71 7.4 91 70 153 7.7 209 71 328 7: 351 7: 351 7: 320 70 216 8 163 8: 209 8:	559 4. 553 4. 647 4. 451 4. 552 4. 394 4. 453 4. 606 4. 606 4.	.8 379 .7 355 .8 368 .8 368 .8 358 .8 358 .8 358 .8 359 .8 392 .8 392 .8 392 .8 392 .8 392 .8 392 .8 394	10 12 31 67 134 203 309 321 275 170 116 200 236	9025 9545 8447 8352 8063 8129 7814 7851 8041 8683 8983 9384 9084	395 414 405 390 369 361 362 374 401 422 431 423 407	260 252 274 70 101 153 222	7819 9111 7904 8554 8694 9043 9564 9469	360 377 369 411 413 421 447 437
	HOLSTEIN	1947 1948	446 114 285	483 3.	.4 385	34	12102	415			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD 8REED	FRESHENING YEAR 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	RECORDS MILK NO. L8. 437 12037 562 11850 728 11657 952 11659 1227 11737 1458 11417 1392 11520 1205 11954 1586 12490 2349 13102 2285 12818 446 12605	TEST FA PCT	3. NO. 148 13 309 18 507 14 854 18 1155 18 1373 15 1275 31 946 1383 59 22/5 51 2242	EMPORARY MILK L8. 12765 12170 11719 11598 11684 11450 11663 12088 12620 12963 12685	AV. FAT L449 435 418 419 411 420 438 456 467 458 454	706 1108 1146 314 1162 1504 1504	11541 11640 11665 11812 12156 12501 13108	FAT LB. 413 418 419 427 442 457 476 470
JERSEY	1956 1957 1958 1959 1960	6 6178 13 7079 44 7660 59 7287 27 7038	5.4 33 5.4 37 5.3 40 5.3 38 5.3 37	74 13 52 39 87 51	6232 7276 7647 7744 7296	321 386 398 402 381	4 11 40 40 23	6355 6610 7497 8307 7854	333 359 407 434 428
BROWN SWISS	1956 1957 1958 1959 1960	1 12770 10 10832 31 11098 48 10677 23 11378	4.0 51 4.3 46 4.1 45 4.1 45 4.0 45	69 6 53 20 38 37	12510 11127 11068 10954 10879	467 458 448 440 434	6 13 23 17	9093 11462 12049 10650	371 460 490 429
ALL 8REEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	554 10796 356 11231 528 11281 715 10951 937 10719 1280 10606 1622 10679 1809 10648 1712 10789 1428 11355 1772 12046 2633 12630 2652 12277 551 11857	3.6 38 3.7 40 3.8 40 3.8 39 40 3.8 39 3.9 40 3.8 39 3.8 42 3.7 44 3.8 42 3.7 44 3.8 45	04 80 08 179 03 376 07 641 00 1117 02 1524 08 1694 05 1570 25 1122 44 1518 64 2534 2566	11403 12471 12086 11490 10955 10781 10747 10768 10982 11546 12290 12584 12231 11615	410 441 425 408 404 405 412 432 432 453 463 453	966 1360 1422 388 1280 1710 2107 473	10541 10986 10940 11191 11820 12067 12670 12371	399 410 409 423 439 453 472 464
003 GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	24 7035 13 7548 19 7911 17 8478 18 8096 26 7677 28 8005 26 7858 16 7944 11 7682 3 9423 12 9462 14 8724	4.8 37 4.7 39 4.8 38 4.7 36 4.7 37 4.6 36 4.9 36 4.9 42	65 2 73 6 88 6 81 12 71 25 59 24 62 11 74 3 27 1 59 10 27 15	7990 11025 10158 9960 9419 9068 8549 8055 8740 8870 12410 9387 8802 8930	381 415 439 410 564 385 376 341 373 377 487 431 421 434	24 24 11 1 10 6	7630 8429 9061 7336 11292 8795 8851 9080	342 365 373 330 438 408 444 450
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	402 10760 264 11335 408 11888 488 11860 577 11424 767 11910 890 12282 1111 12186 868 12106 656 12450 716 12613 1671 13324 1292 12804 154 12520	3.5 39	000 370 13 670 30 835 35 1028 35 739 51 502 65 648 87 1630 74 1257	12163 12319 12673 12227 11711 11971 12292 12078 12142 12447 12582 13296 12641 13052	429 430 445 426 410 416 431 433 452 458 480 460	683 139	11668 12032 12024 11820 12347 12545 13164 13156	405 427 428 434 449 455 479
JERSEY	1958 1959 1960	2 7200 3 9483 1 8380	5.4 38 5.1 47 5.0 41		8250 9920 9230	457 527 475	1 3 1		491 499 480
BROWN SWISS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	45 9445 27 9585 28 10447 31 9490 35 8719 58 9307 33 10071 24 10229 18 9153 15 10940 21	3.7 35 3.9 36 3.9 36 4.0 31 3.9 36 4.0 35 4.1 4 4.1 4	660 3 010 4 604 8 444 9 65 25 97 22 12 15 75 7	10310	377 431 453 401 374 580 423 422 424 448	14		399 393 407 431

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING	RECURDS	MILK	TEST	FAI	305-DAY CONT RECORDS		AV. FAT	YEARLY RECORDS		ERAGE FAT
		YEAR 1958 1959 1960	NO. 49 103 18	LB. 12364 11840 10543	PCT. 4.0 4.1 4.0	L8. 498 460 427	NO • 57 92	L8. 11798 11374 10603	L8. 477 463 421	NO. 27 85	L8. 11533 11734 10770	LB. 461 470 434
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	471 304 455 536 630 851 951 1161 902 682 740 1734 1412	10444 11017 11633 11616 11179 11604 12079 12049 11973 12540 12551 13263 12687 12258	3.7 3.6 3.6 3.5 3.6 3.5 3.6 3.7 3.7 3.7	378 389 415 409 396 408 427 433 432 450 464 487 474 453	51 64 129 239 391 717 682 1067 757 514 662 1678 1364	11993 12244 12539 12125 11605 11815 12150 11962 12075 12400 12556 13237 12515 12728	426 429 445 425 409 414 429 432 452 458 480 460 461	715 923 700 144 609 905 1095	11488 11905 11960 11765 12303 12470 13019 12835	403 425 427 433 448 455 478
004	GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 3 5 7 5 3 3 5 1 4	7920 6950 8062 6347 7230 9323 7547 8190 7160 8698 7270	5.2 4.7 4.9 4.9 5.0 4.8 4.4 4.5 5.3 4.6	410 332 392 312 361 448 331 362 383 392 394	1 3 6 5 3 3 5 1 4	7520 8327 8297 8018 8200 7887 7472 8330 9848 8690	333 376 374 380 398 378 361 420 408 417	5 5 3 1 4 1	7778 7906 8084 7546 9832 9935 10410	371 377 364 382 449 411
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	25 18 15 27 36 47 70 102 145 172 287 492 446	11643 13901 13819 12682 12362 11835 12407 12156 11719 11946 11777 12730 12472 12711	3.5 3.4 3.4 3.5 3.6 3.5 3.6 3.5 3.6 3.6 3.6	403 476 470 431 424 400 439 430 416 424 421 455 446 454	5 8 7 16 25 34 61 92 130 132 273 459 433 67	12890 14319 13989 11829 11366 11334 11757 11771 11958 11906 12053 12819 12470 12882	484 512 490 418 390 387 418 420 426 426 439 463 452 485	50 73 114 33 237 405 343 55	11581 11837 11269 11705 11851 12278 12935 13353	398 416 407 426 428 449 471 485
	JERSEY	1960	3	8693	5.6	483	3	8940	465	3	9189	481
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	25 18 16 30 41 54 75 105 148 177 288 496 447	11643 13901 13451 12289 11838 11124 12062 12075 11635 11840 11761 12698 12460 12556	3.5 3.4 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	403 470 467 421 420 389 434 431 414 422 421 454 446 455	5 8 7 17 28 40 66 95 133 137 274 463 434	12890 14319 13969 11575 11041 10878 11474 11658 11866 11744 12039 12793 12461 12713	484 512 490 413 388 385 415 419 424 423 439 463 452	55 76 117 36 236 407 344 58	11235 11682 11187 11358 11842 12255 12927 13137	396 414 402 428 449 471 485
005	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	113 103 118 190 240 293 350 418 324 236 190 229 277 76	7059 7188 7206 7307 7311 7068 7347 7199 7378 7746 7897 8281 8057 8167	4.8 4.9 4.9 4.8 4.8 4.8 4.8 4.8	337 344 353 353 351 340 352 347 356 369 382 393 366 391	17 26 33 85 156 249 323 395 297 178 166 222 273 74	8356 8177 7980 7836 7759 7472 7610 7617 7937 8129 8561 8540 8256 8493	383 385 373 365 362 546 357 358 373 384 401 401 387 400	273 386 285 134 134 16c 260 70	7669 7820 8005 8044 8503 8675 8878 8666	356 366 380 382 402 408 419 411
	HOLSTEIN	1947 1948 1949 1950 1951 1952	90 97 133 182 243 358 521	10902 11123 11251 11339 11539 11187	3.5 3.5 3.4 3.6 3.5 3.6	383 388 385 403 407 401	8 20 45 94 182 364	12654 11014 11765 11430 11243 11045	437 389 410 409 403 395			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STU0	BREEO	FRESHENING	RECORDS	MILK	TEST	FAT	305-DAY CENT	MILK	FAT	YLARLY I RECORUS	MILK	ERAGE FAT
		YEAR 1954	NO. 621	LB.	3.6	392	NO. 586	LB.	LB. 393	ио. 511	LB. 10991	395
		1955 1956	546 490	11261 11707	3.7 3.7	411 427	508 369	11264 119∠0	40B 433	479 290	1120B 11770	409 426
		1957	499	12330	3.6	448	423	12362	448	364	12120	441
		1958 1959	914 858	12916 12350	3.7 3.7	470 452	866 82 7	12624 12338	459 451	542 د68	12112 12616	45 1 466
		1960	150	11518	3.6	418	134	11441	417	122	11578	428
	JERSEY	1947 1948	22 15	1665 6313	5.5 5.6	418 352	8	7149 6145	404 343			
		1949	16	6077	5.7	339	3	5297	280			
		1950 1951	28 38	6828 7196	5.4	362 381	- 8 10	7608 7517	406 395			
		1952	61	7/21	5.2	391	26	7121	355			
		1953	89	7174	5.4	386	58	6976	366	42	7075	369
		1954 1955	97 54	6843 7115	5.5 5.4	371 385	62 36	7050 7503	379 392	44 28	7177 7146	383 383
		1956	42	7257	5.5	396	29	7406	390	19	7185	373
		1957 1958	52 150	7511 7898	5.3 5.3	394 415	39 1 14	8021 7906	425 419	30 79	7700 7976	466 420
		1959	164	8009	5.4	428	135	7809	412	115	8297	440
		1960	64	7945	5.2	412	53	8407	435	42	8168	434
В	ROWN SWISS	1949 1950	1 14	11690 11629	4.1 3.9	483 457	2	10170	367			
		1951 1952	36 56	9028 9243	4.2 4.2	380 387	20 40	9219 9163	362 569			
		1953	92	8907	4.2	373	32	9304	375	7.1	9203	369
		1954 1955	151 182	8953 9270	4.1	368 38∠	108 13 3	9033 93 / 3	365 381	97 107	9100 9074	370 367
		1956	196	10079	4.1	416	124	10306	420	75	9628	387
		1957	240	10500 11142	4.2	437	161 228	10720	435	153	9915	409
		1958 1959	322 416	11090	4.2	466 460	335	11140 11277	454 461	180 294	10423	427 457
		1960	120	10495	4.1	432	89	10471	425	72	10264	417
М	. SHORTHORN	1952 1953	1	8880	4.1 3.9	362	1 4	8270	350	14	7805	705
		1954	14	6830 7 940	4.1	26 / 324	4	7855 8605	308 3 37	4	8178	305 315
		1955	6	6775	3.9	263	5	8318	324	5	7942	310
		1956 1957	3 12	10047 9077	3.8 3.8	378 342	2 10	10340 9769	402 368	2 9	7423 8128	283 311
		1958	12	10068	3.9	392	7	9261	355	ė,	7566	321
		1959 1960	14	8494 6833	4.0 3.8	337 261	8	8521 6437	328 249	5 2	4877 8660	434 324
	ALL BREEDS	1947 1948	225 215	8655	4.4	363 364	33 52	9105 9033	401 382			
		1949	268	8902 9163	4.3 4.2	368	81	9964	390			
		1950	414	9193	4.3	379	189	9664	389			
		1951 1952	557 769	9258 9202	4.3	379 376	368 620	9555 9320	383 3 7 2			
		1953	1056	9208	4.2	376	952	9454	380	764	9368	376
		1954 1955	1291 1112	9121 9578	4.2 4.2	373 388	1155 979	9402 9845	378 393	1042 907	9469 9796	381 393
		1956	967	10212	4.1	409	702	10463	416	528	10339	407
		1957 1958	993 1627	10748 11429	4.1 4.1	429 453	799 1437	10997 11367	434 446	695 1077	10695 10956	423 43 7
		1959	1729	10916	4.1	440	1578	11000	438	1357	11177	453
006	CHEDNEEV	1960	413	10016	4.2	415	362	10091	417	308	10125	422
000	GUERNSEY	1948	1 3	12750 9987	4.7 4.7	599 469						
		1950	4	8688	4.9	421	3	10440	426			
		1951 1952	23 23	8478 7925	4.8 4.8	404 379	15 21	8838 8 94 9	401 393			
		1953	33	8483	4.8	407	32	8815	400	21	8662	388
		1954 1955	37 40	8112 8505	4.8 4.7	392 399	36 39	8828 9042	401 402	26 30	8577 8189	399 393
		1956	23	8148	4.7	384	20	9760	427	1	8764	419
		195 7 1958	12 12	8884 8359	4.5 4.5	349 368	11	10131 8342	431 380	5	9112 8391	424 382
		1959 1960	10 3	8394 8907	4.4	380 409	9	8324 9243	401 440	y	8745 11064	413 530
	HOLSTEIN	1948	3	10170	3.2	325	3			·		
		1949 1950	4	12863	3.5	448 485	1	11680	405			
		1951	19	11429	3.5	404	13	11658	402			
		1952	65	11626	3.5	410	58	11537	403	0.4	11500	1, 10
		1953 1954	162 371	12068 11951	3.6 3.6	437 435	151 352	11757 11744	423 423	93 274	11589 11876	410 427
		1955	430	11463	3.6	417	372	11691	420	307	11890	426
		1956 1957	460 595	11997	3.6	434	349	12161	440	100	12514	450

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SCRUICL IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

C THO	ancen.	505ton Milwo	DICORDS NI	u		305-DAY CONT			YEARLY		
STUD	8RCED	FRESHENING YEAR 1958 1959 1960 1961	RECOROS MII NO. LE 996 1309 880 125 103 1279 2 1409	PCT. 4 3.7 8 3.7 8 3.7	FAT LG. 476 461 471 589	RECORUS NO. 970 856 98 1	MILK LE. 12931 12316 12687 12570	FAT LB. 468 450 463 445	RECORUS NO. 598 674 62	MILK L8. 12297 12765 12435	FAT L8. 444 465 459
	ALL BREEOS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960	4 108 7 116. 5 944 42 98 88 1066 195 1146 408 1166 470 1120 483 118 607 120: 1008 130: 890 1244 106 1266 2 1406	0 4.0 8 4.7 3 4.2 9 3.9 1 3.8 1 3.7 4 3.7 8 3.7 8 3.7 8 3.7	393 457 434 404 402 432 431 415 432 438 476 460 467 589	4 28 79 183 385 411 369 551 980 865	10750 10148 10849 11243 11473 11473 12331 12235 12884 12274 12584 12570	421 402 401 419 421 418 439 467 449 463	114 300 337 101 409 604 683 63	11050 11590 11560 12476 12291 12259 12712 12413	406 424 423 450 446 444 464
007	HOLSTEIN	1951 1952 1953 1954 1955 1956 1957 1958 1959	3 125(3 1194) 5 1133 3 1373 3 1344 16 1116 46 1264 44 1224 80 1270 16 1283	3 3.9 2 4.1 7 3.9 0 4.0 4 4.1 8 3.9 5 3.9 2 3.9	516 463 453 538 527 458 494 477 496	1 11 44 42 79 15	14930 12985 13185 12706 12351 12009	640 508 512 485 466 454	6 30 34 64 12	11634 12020 12840 12836 12242	422 442 496 486 474
	ALL BREEOS	1951 1952 1953 1954 1955 1956 1957 1958 1959	3 1250 3 1191 5 1133 3 1344 16 1111 46 1264 44 1244 80 1270 16 1285	3 3.9 2 4.1 7 3.9 0 4.0 4 4.1 8 3.9 5 3.9 2 3.9	516 463 453 538 527 458 494 477 495	1 11 44 42 79 15	14930 12985 13185 12706 12351 12009	640 508 512 485 466 454	6 30 34 64 12	11634 12020 12840 12836 12242	422 442 496 486 474
008	A YRSHIRE	1951 1952 1953 1954 1955 1956 1957 1958 1959	1 81. 3 74: 4 82: 5 67. 3 78: 2 79: 1 636 1 83: 1 786	0 4.1 0 4.0 0 3.9 7 3.4 0 3.4 0 3.5 0 4.3	360 305 330 266 268 269 225 358 311	1 1 1	9940 9140 11060 10890 11740 8570	396 372 434 426 428 357	1	7935	315
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	40 721 19 782 27 83 22 866 32 79 20 800 27 88 17 83 13 899 7 93 4 93 6 766 3 69 1 555	9 4.9 5 4.7 8 4.8 3 4.8 3 4.9 8 4.9 5 4.9 6 4.7 8 4.5 0 4.8	355 380 392 414 380 390 430 408 431 430 419 368 342 268	4 7 10 20 18 25 16 11 6 3 6	9643 9438 8846 9256 8295 8253 8935 8350 9125 7308 9500 10908 8133 8630	424 445 423 381 390 413 391 426 333 453 453 460 400	13 12 12 1 1 4 4	8258 8620 8403 6823 8881 10249 8028	389 400 400 328 416 491 357
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	314 112; 207 113; 235 115; 226 116; 172 114; 144 117; 130 119; 91 115; 55 116; 36 121 29 118; 22 133; 8 137;	6 3.5 3.5 2 3.5 8 3.5 7 3.5 8 3.5 7 3.5 7 3.5 7 3.5 7 3.5 7 3.5	389 398 402 411 405 408 415 404 410 419 408 471 463	21 36 46 82 105 125 121 88 51 31 25 22	11706 12477 11865 11964 11491 11485 11664 11343 11579 11961 11842 13094 12813	4 14 4 38 4 30 4 25 4 12 4 07 4 14 4 07 4 15 4 36 4 28 4 75 4 53	65 60 41 7 20 14 8	11234 11449 11889 12523 11778 12347 13212	395 408 428 448 445 449 474
	JERSEY	1947 1948 1949 1950	2 768 6 696 6 728	7 5.5	442 387 414						

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	OKO OF E	01 31007 01	DALLEDY OF TH	AIX 01 1	NESTICHTING	,					
STUD	BREE0	FRESHENING YEAR 1951 1952 1953 1954 1955	RECOROS MII NO. LI 8 70. 6 68 7 82. 7 73 3 84 2 81	PCT. 5.9 7 5.8 7 5.6 9 5.6 7 5.2	FAT LB. 411 384 463 407 440 434	305-DAY CONT RECURDS NO.		FAT LB.	YEARLY I RECORUS NO.	ERD AV. MILK Lb.	ERAGE FAT Lb.
		1957	1 90		472	1	9780	482			
	ALL BREEOS	1947 1948 1949 1950 1951	356 1076 232 1093 268 111- 256 112- 213 1073 173 110	3.7 3.6 3.6 3.7 3.8 3.8 3.7	411 402 403	40 53 92 126 144	11376 12173 11466 11670 10972 11065	415 438 429 425 407 405	70	10.726	201
		1954 1954 1955 1956 1957 1958 1959	168 1116 120 106 74 108 47 113 35 113 29 119 12 115 1 55	3.8 3.8 3.8 0 3.7 14 3.6 3.8 3.8	399 409 415 406 445	147 105 62 37 29 29 12	11196 10883 11144 11207 11529 12595 11289 8630	414 405 417 419 433 475 422 400	78 53 0	10738 11014 11099 11610 11295 11881 11790	394 407 417 433 424 458 438
009	GUERNSEY	1948 1949 1950 1951 1952 1953 1954 1955	1 84 3 73 3 80 5 70 3 76 1 89 1 86 1 80	4.7 3.0 4.5 3.0 4.6 1.0 3.7 3.0 3.9 3.0 4.2	340 364 312 351 331 343 336	1 1 2 2 1 1 1	10410 11490 9075 8900 7780 7780 6320 8160	369 402 356 355 339 339 285 368	1 1 1 1 1	6300 7477 7434 7336	289 328 318 330
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	27 109 28 111 42 119 64 122 63 123 81 130 95 123 68 126 32 131 40 145 34 143 7 132	3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	394 425 433 429 421 450 431 436 460 496	1 3 23 39 53 58 79 91 57 28 37 33	9900 10200 11683 11794 11832 11676 12167 11903 12225 12353 13135 13934 12379	344 390 417 420 412 406 427 427 436 448 478 501	74 55 16 36 31	12146 11869 12242 13139 13104 13605 12446	437 417 441 480 474 485 454
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	27 109 29 110 45 116 67 120 69 119 66 121 82 129 96 123 69 125 33 129 40 145 34 143 7 132	54 3.6 57 3.6 58 3.6 58 3.5 58 3.5	394 419 430 420 417 448 430 435 457 496 489	1 3 24 40 55 60 80 92 92 93 37 33 7	9900 10200 11630 11786 11752 11583 12112 11859 12123 12209 13135 13934 12379	344 390 415 419 410 426 426 434 445 478 501	75 56 17 38	11974 11510 12156 12798 13104 13605 12446	432 416 439 471 474 485 454
010	GUERNSEY	1947 1948 1949 1950 1951	8 76 4 88 3 91 5 73 2 76	18 5.2 57 5.0 72 5.0	454 456 369						
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	12 116 11 124 14 114 16 125 16 120 12 120 11 118 4 113 1 131 1 114 2 134	3.6 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	439 400 443 434 420 413 398 404 451 408 473	2 1 1 5 7 8 10 0 11 4 1 1	14705 13240 10110 12282 12201 12149 12064 12119 10613 11870 14740 13770 13430	466 472 370 443 430 436 429 424 376 399 584 545 519	7 4 1 1 2	11967 11627 10955 10006 13080 13462 14344	424 411 385 362 506 502 562
	BROWN SWISS	1947 1948 1949 1950	7 95 4 78 6 78 1 87	58 4.0 53 4.0	321 315						

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BRIEDING URGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING YEAR	NO.	LB. F	rest ect.	FAT LB.	305-LAY CONTI RECORDS NO.	EMPORARY MILK LB.	AV. FAT LB.	YEAKLY F RECURDS NO.	MILK LB.	FAT LB.
		1951 1952 1953 1955	2 8 1 10	9060 8330 0360 6070	4.2 4.1 4.2 4.8	383 342 437 292	1	10430 11020 6200	443 445 362			
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	19 10 23 10 20 10 19 11 18 11 11 11 5 10 1 13 1 11 2 13	9916 0717 0188 0816 1851 1613 1613 1886 1822 0318 3170 1430 3415 3670	4.2 4.0 3.8 4.0 3.7 3.6 3.5 4.3 9 3.4 3.6 3.5 4.3	408 417 385 420 428 411 415 398 382 451 408 473 582	2 1 1 5 7 9 11 11 5 1 1 2	14705 13240 10110 12282 12201 11958 11969 12119 10130 11870 14740 13770 13430	466 472 370 443 430 437 430 424 373 399 584 545	8 7 4 1 1 2	11967 11627 10955 10006 13080 13462 14344	424 411 385 362 506 502 562
011	GUERNSEY	1947 1948 1949 1950 1951 1952 1953	4 8 2 10 3 8 2 8 2 9	9187 8713 0565 8963 8350 9135 8400 2450	4.0 4.2 3.7 3.8 4.1 4.0 4.2 4.0	364 361 382 344 339 364 370 504	2 2 1 1 1 1	11430 10150 9750 10480 9510 8890 10490	419 419 407 395 372 352 421	}	9494 9429	372 366
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954	9 13 10 13 8 11 5 12 6 12 6 12 2 15	1451 3330 3468 1818 2814 2537 2337 5730 6990	3.6 3.5 3.6 3.4 3.8 3.6 3.7 3.6 3.2	412 496 487 403 485 452 449 569 543	7 2 2 2 4 5 5 1	10729 11935 12655 13020 10535 11402 11624 12110 14120	416 442 453 472 382 412 421 436 567	5 2	11057 11195	401 412
	JEKSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1959	9 7 13 7 10 7 15 8 13 6 8 7 4 8 2 8	6170 7044 7574 7168 6877 6838 7349 6520 8065 9650	4.8 5.0 5.1 5.1 5.0 4.9 4.9 5.1 5.1 5.1	295 348 386 356 340 333 360 328 412 493 483	2 5 4 6 7 9 8 4 2 1	6810 7932 9468 7373 7310 7053 7371 7200 7890 9820 10100	362 434 494 395 392 566 383 374 407 547 518	7 4 1	7756 7687 5341 8764	408 404 286 440
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	22 S 25 16 21 S 22 8 21 8 15 S 7 S 2 8 2 13	0696 9919 0171 9196 8360 8685 9441 9999 8065 3320	3.8 4.2 4.4 4.5 4.6 4.4 4.4 4.5 5.1 4.6	396 411 426 372 373 370 396 422 412 518 483	11 9 6 9 12 15 14 6 2 2	10144 9314 10530 8892 8649 8693 9010 8567 7890 11970	407 432 480 413 389 382 394 392 407 557	13 7 1	9159 8938 5341 8764	402 401 286 440
012	GUERNS EY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1958	33 6 38 7 31 6 8 7 3 7 5 7 3 8 1 1 8	6845 6681 7222 6943 6508 7794 7087 7944 8080 7650 8070	5.0 4.9 5.0 4.7 5.0 4.7 4.7 4.7 4.1 4.1 4.5	339 328 356 338 323 366 338 374 392 316 303 314	2 1 4 2 5 3 5 3 1 1	8195 9240 8990 8330 8032 6520 6436 6436 6820 6300 5880	402 418 383 378 376 314 313 332 320 302 278	3 5 3 1	7223 7323 7085 6453	353 361 346 310
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955	53 11 52 11 45 11 31 11 23 11 15 11 10 11	1330 1476 1122 1447 1183 1026 1341 1617	3.4 3.5 3.5 3.6 3.6 3.6 3.5 3.6	384 398 384 412 402 379 404 405 390	5 13 10 17 10 14 14 9	13544 12758 12253 11444 11583 11403 11601 11453 11525	461 447 430 411 405 401 418 416 422	/ 9 6	11416 11325 11540	401 406 418

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREEO	FRESHENING YEAR 1957 1958 1959	RECUROS NO. 2 2	M1LK LB. 11785 9985 12200	TEST PCT. 3.3 3.3 3.3	FAT L8. 385 326 401	30	DS-DAY CONT RECOROS NO. 2 2 1	EMPORARY MILK LB. 12450 11695 11700	AV. FAT LB. 465 419 424	YEARLY I RECORDS NO. 2 2	HERD AV MILK LB. 11734 13010	ERAGE FAT L8• 420 469
E	BROWN SWISS	1947 1946 1949 1950 1951 1952 1953	37 22 27 31 23 32 18 8	8512 10161 10316 8961 9012 9967 10731 9689	4.2 4.1 4.2 4.2 4.2 4.3 4.2	361 416 432 372 383 428 446 396		4 5 5 4 4 9 7 3	9793 11530 11758 9993 11370 11197 12067	464 462 476 397 466 464 488 410	7 2	9421 9652	394 412
		1955 1956 1957 1958 1959	4 3 2 5 2	13500 13860 11470 12018 10260	4.1 4.1 5.8 4.1 3.6	551 573 439 492 376		1 2 1	13580 14115 12480	587 597 518	2	11571	492
è	• SHORTHORN	1947 1948 1949 1950 1951 1953	2 2 3 3 1 3	9045 9315 7457 6203 5960 5647 4690	3.9 3.7 5.6 3.8 3.5 3.6 3.2	352 338 272 235 206 204 150		2 1 1 3 1	6390 7430 5830 7190 9600	258 310 206 261 364	3 1	6943 6169	259 229
	ALL BREGOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	186 110 120 110 67 63 39 23 14 9	9492 9735 9614 9354 9522 10078 10294 10148 11464 10518 11628 11016 9845	4.0 4.1 4.1 4.1 4.0 3.9 4.0 3.9 4.0 3.9	366 380 383 375 378 402 403 395 439 388 412 434 367		9 20 18 26 25 32 27 17 9 5 2	11877 11995 11297 10638 11059 10826 10667 9712 9984 10122 12450 11584 10020	473 446 423 401 405 415 407 385 392 403 465 467	20 16 9 5 2	9418 9865 10055 9376 11734 12290	370 393 394 355 420 480
013	GUERNSEY	1947 1948 1951 1952 1953	6 2 1 1	7847 7090 7880 7560 8090	4.7 4.9 4.5 4.9	364 341 358 370 374		1 1 1	7170 7780 7050	336 379 345	1	7532	376
	HOLSTEIN	1947 1948 1950 1951 1952 1953	6 3 2 1 1	9520 10727 9185 8520 10260 9130	4.0 3.8 4.5 3.7 3.5 3.6	380 411 416 314 356 325		1 1 1	11460 11180 11230	372 379 386	1	11445	392
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1955 1958	11 5 2 3 4 1 3 2 1	8417 6460 7010 7843 8015 8080 8033 8010 8400 4510	5.3 5.0 5.8 5.0 5.1 5.3 5.2 4.9 5.0	449 325 407 392 407 426 414 397 419 218		3 1 3 4 1 3 2 1	7380 7610 7657 7675 7630 7573 7495 7010 7170	368 423 416 395 375 382 406 350 424	2 1 1	7303 7140 7477	362 374 376
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1955 1958	23 10 2 5 6 3 5 2 1	8556 7366 7010 8380 8077 8633 8264 8010 8400 4510	4.8 4.6 5.8 4.8 4.6 4.7 4.9 5.0	409 354 407 402 363 384 368 397 419 218		3 1 3 6 3 5 2 1	7380 7610 7657 8222 8863 8200 7495 7010 7170	368 423 416 381 378 375 406 350 424	2 2 1 1	9489 7303 7140 7477	384 362 374 376
014	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955	40 16 38 46 36 30 29 24 19	7261 8449 8117 8043 7585 7809 7947 8242 8568	4.7 4.8 4.7 4.7 4.8 4.9	337 401 387 379 352 378 387 382 398		2 4 12 17 24 26 28 24	7950 11020 9475 8829 8575 8006 8639 9060 9179	408 451 432 399 387 362 388 392 406	15 11 10	8315 3008 7666	370 379 381

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

GROUP	ED BY STUD, BY	8REED, E	YEAR	OF FR	EZHENING						
STUD 8REED	FRESHENING YEAR 1957 1958 1959	RECORUS NO. 8 4 6	MILK LB. 10436 9645 8990	TEST PCT- 4.4 4.2 4.7	FAT L8. 460 404 424	305-DAY CONT RECORDS NO. 6 3		AV. FAT LB. 484 421 429	YLARLY H RECURDS NO. 1 2		ERAGE FAT LB. 502 374 425
⊕ HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	84 80 126 130 121 128 117 111 66 32 39 19	10821 11547 11621 11874 11551 12222 12132 12191 12084 12301 12073 12483 12197	3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4	3/1 3963 403 393 418 418 418 414 416 415 424 418	10 16 29 49 75 98 110 107 58 27 35 19	11714 12234 12536 12141 11296 11978 11778 11814 11889 11714 12303 13246 13593	438 444 448 427 406 423 424 422 426 429 448 475 496	50 73 43 5 21 7	11428 12346 11985 11439 12160 12610 12918	398 434 418 411 449 469
JEKSEY	1952 1953 1954 1955 1956 1957	1 2 3 3 3 3 3 2	4030 3900 4923 5307 7870 8400 9020	6.2 5.6 5.5 5.5 5.7 5.4	250 243 276 292 435 475 487	1 2 3 3 2 2 2	5300 4700 5343 5240 6820 8010 7765	331 257 286 274 354 447 427	3 2 2	4821 4633 7707	250 220 431
BROWN SWISS	1952 1953 1954	2 2 1	7450 7385 9040	4.4 4.4 4.0	326 323 363						
ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	124 96 164 176 157 161 150 139 88 45 50 25	9672 11030 10809 10873 10641 11289 11150 11329 11094 11400 11590 11752 10994	3.8 3.7 3.8 3.7 3.7 3.7 3.8 3.7 3.7 3.8 3.7	360 397 400 394 409 406 406 419 426 420	12 20 41 66 99 125 140 134 80 37 43 24	11087 11991 11640 11288 10636 11099 11049 11176 10996 11017 11983 12391 12081	433 445 443 420 402 409 414 413 415 424 453 465 474	65 87 55 5 24 9	10709 11538 10932 11439 11736 11710 12530	39 1 42 1 40 4 4 1 1 4 4 5 4 3 2 4 6 5
015 GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	1 1 10 10 7 4 4 4 2 3 2	8530 7090 7209 7060 6927 6288 7245 8095 7725 9120 7250 11540	4-9 4-6 4-6 4-7 4-9 4-7 4-7 4-8 4-7 4-6	418 323 333 339 339 308 342 384 368 429 326 481	2 4 3 3 3 2 2 2 1	9645 8378 8113 7523 7403 9757 7885 9585 8610 10320	453 374 352 345 345 420 377 418 400 456	1 2 1	12273 10072 9014	372 447 451
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	6 5 6 5 4 5 3 5 1	11347 11904 11923 12208 12985 11966 13280 13354 11160 14473 10960	3.6 3.5 3.4 3.5 3.5 3.6 3.8 3.4 3.3	407 416 407 410 438 421 465 482 427 490 367	1 3 4 3 5 1 3	13820 14330 12528 11860 10415 12413 12528 10750 13243 11980	468 495 454 440 381 456 449 417 478 425	2 5 1 2	11396 11879 8687 13009 11609	399 424 323 491 410
JERSEY	1947 1948 1949 1950 1951 1952 1953	9 2 2 2 4 4 3	6812 4280 9240 8395 6115 5975 6863	5.4 5.7 5.1 5.1 5.6 5.9 5.6	367 243 469 416 342 347 378	1 5 4 3	7590 6743 5318 7260	388 350 273 361	2	5/33	299
ALL BREEDS	1947 1948 1949 1950 1951 1952 1953	16 8 18 17 15 13 10 9	8620 9396 9006 8731 8326 8375 8941	4.7 4.2 4.3 4.3 4.7 4.7	385 361 373 363 366 364 390	1 5 9 10 11	13820 12456 10134 8826 7773 9026	468 478 402 378 332 387	5	9306	353

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							> 0	5-LAY CUNTA	MPUDVOA	ΔV	YEAKLY I	LILVI. A./	EDACE
STUD	BREEO	FRESHENING	RECORDS	MILK	TEST	FA1	30	RECORDS		FAT	KFCOKF?	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.		NO.	Lo.	LB.	NO.	LB.	Lb.
		1955	3	8870	4.4	387		3	8840	390	2	1000	387
		1956	6	11797	4 - 1	460		5	11780	454	1	13009	491
		1957 1958	2 1	7250 11540	4.6	326 481		2	8610 10320	400 456			
		1959	i	10960	3.3	367		i	11780	425	1	11609	400
016	HOLSTEIN	1947	18	10892	3.5	380		1	11560	457			
010	HOESTEIN	1948	16	11067	3.4	370		'	11300	+ 51			
		1949	26	10618	3.5	373		5	10894	429			
		1950	20	10658	3.5	376		4	11965	415			
		1951	10	10035	3.6	353		5	10722	398			
		1952	7	9731	3.7	346		5	10158	377			
		1953	10	10335	5.7	376		10	11494	427	ک	10191	371
		1954	8	9899	3.0	358		ь	11164	414	J	12399	451
		1955	2	11210	3.3	370		2	11600	443	1	11794	445
		1957 1958	1 1	12870 10720	3.5 3.4	448 376		1	13540 13790	515 518			
								·	.3,,,	3.0			
E	BROWN SWISS	1947	5	9926	4.2	415							
		1948	5	9614	4.2	401							
		1949 1950	5	9670	4.2	407							
		1951	2	9355 6960	4.4	413 311							
		1952	2	9235	4.5 4.8	436							
		1953	2	9160	4.5	406							
		1754	2	9130	4.4	394							
		1955	1	9460	3.9	369							
	ALL BREEDS	1947	23	10082	5.6	388		1	11560	457			
		1948	21	10721	3.6	377							
		1949	31	10465	3.6	378		5	10894	429			
		1950	24	10441	3.7	382		14	11965	415			
		1951	12	9523	3.7	346		5	10722	398			
		1952	9	9621	3.9	360		5	10158	577 c			223
		1953	12	10139	3.8	381		10	11494	427	3	10191	371
		1954 1955	10	9745 10627	3.8	365 369		8 2	11184 11660	4 14 443	υ 1	12399 11 7 94	451 445
		1957	3]	12870	3.5	448		1	13540	5 15	'	11194	445
		1958	i	10720	3.4	376		i	13790	5 18			
018	HOLSTEIN	1953	1	16700	3.5	588							
0.0		1954	2	10805	3.5	376		1	12780	460	1	13102	482
		1955	31	12601	3.5	447		24	12077	436	20	12105	430
		1956	1414	12523	3.5	431		32	12381	447	5	12330	453
		1957	35	12941	5.4	445		32	12683	459	29	12508	451
		1958	52	13738	3.5	473		52	13137	472	20	12493	449
		1959	27 4	13144	3.4	453		27 4	12669	458	20	13522	484
		1960	4	11868	3.6	424		4	11988	440	3	11412	425
	ALL BREEDS	1953	1	16700	3.5	588		1	12700	460	1	14102	1.00
		1954 1955	2 31	10805 12601	3.5 3.5	376 447		24	12780 12077	436	2 ti	13102 12105	482 430
		1956	44	12523	3.5	431		32	12381	447	20	12330	453
		1957	35	12941	3.4	445		32	12683	459	29	12508	451
		1958	52	13738	3.5	473		52	13137	472	26	12493	449
		1959	27	13144	3.4	453		27	12669	458	2∪	13522	484
		1960	4	11868	3.6	424		14	11988	440	خ	11412	425
019	GUERNSEY	1947	24	7395	4.8	353							
		1948	2	8295	4.3	360							
		1950	1	6390	4.2	266							
		1951	1	9880	4 - 4	437							
	HOLSTEIN	1947	18	10622	3.6	386							
		1948	8	11526	3.5	4G9							
		1949	9	10759	3-6	386							
		1950	4	11170 9595	3.4	383		1	0140	2.71.			
		1951 1952	2 1	11050	3.2 3.6	302 397		i .	9160 10240	334 38 7			
		1953	i	10680	3.5	375		i	10240	308	1	10301	384
	ALL BREEDS	1947	42										
	ALL BREEDS	1947	10	8864 10880	4.3 3.7	367 399							
		1949	9	10759	3.6	386							
		1950	5	10230	3.6	360							
		1951	3	9690	3.6	347		1	9160	334			
		1952	1	11050	3.6	397		1	10240	387			
		1953	1	10680	3.5	375		1	10270	368	1	10301	384
020	GUERNSEY	1947	1	7810	5.6	436							
	ALL BREEDS	1947	1	7810	5.0	436							
0.75									01-10	20.7		() (] =	71.0
075	AYRSHIRE	1960	2	15945	4.5	627		1	9410	387	1	8633	349

STUD	BREED	FRESHENING YLAR	KECORDS NO.	MILK L3.	TEST PCT.	FAT LB.	305-LAY CONT RECORDS NO.		AV. FAT LB.	YEARLY F RELORDS NO.	HERL AV	EKAGE FAT LB.
075	SUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	166 100 144 181 284 524 856 1063 1110 1054 780 647 514	7876 8428 8244 8211 8068 8052 8008 7845 8138 8215 8285 8507 8585 9009	4.9 5.0 4.9 4.9 4.9 4.9 4.8 4.8	387 419 405 400 393 389 388 379 391 392 395 407 409 425	0 14 33 63 137 351 663 662 916 813 622 527 454	9253 9709 8910 9329 8833 8353 8256 8217 9665 9061 9107 9298 8829 9204	418 406 438 415 390 384 383 397 415 426 408 424	436 716 830 637 543 381 373 96	8344 8357 8404 8796 8861 9122 9368 9414	392 394 391 404 411 424 436 437
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	50 111 291 550 975 1710 2825 3657 4239 4413 4534 5418 6976 1501	12642 12327 12254 11636 11672 11800 12013 11758 11949 12208 12288 12829 12845 12685	3.6 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	455 447 447 436 431 433 431 432 439 451 457 474 473	5 8 96 214 553 1278 2349 3009 3501 3491 3694 4655 6721	12870 12860 12200 12081 11735 11828 11818 11694 11918 12187 12357 12624 12603 12532	494 449 441 439 429 433 433 426 451 461 467 462	1735 2530 3123 2567 3768 3389 5553 1000	11462 11619 11642 11699 12116 12347 12715 12647	419 428 429 434 453 464 474
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	11 9 13 33 89 146 248 239 237 237 270 692 1091	7899 7672 9142 8047 8318 8296 7723 7919 7875 8189 7955 8139 8113	4.7 4.7 4.7 5.3 5.3 5.2 5.1 5.1 5.1 5.1 5.2 5.2	358 357 420 416 443 435 399 405 398 417 406 419 422 439	5 15 33 84 100 102 97 123 318 758 315	8030 7911 7732 8036 7757 7956 8727 8611 8406 8252 8496	405 421 394 414 399 407 437 441 435 426 438	50 84 91 87 106 224 625 210	8061 7729 7692 8099 8358 8229 8486 8551	419 395 395 411 425 422 438 436
В	KOWN SWISS	1952 1953 1954 1955 1956 1957 1958 1959	15 52 102 111 162 193 302 339 98	10940 10599 10774 10756 10670 10377 11096 10948 10735	4.3 4.1 4.1 4.1 4.1 4.1 4.1	461 434 444 439 441 425 451 453 434	3 21 66 72 75 102 124 235 73	11487 10299 10068 9962 10462 10469 10931 10941 10813	444 417 407 395 412 417 437 448 443	12 51 56 57 95 114 195	9676 9552 10076 10070 10084 10512 11602 10836	376 383 407 402 406 419 443 442
М	• SHORTHORN	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 1 1 4 2 2 2 3 2 10 3	9510 11750 8400 9050 8915 9255 8860 8840 11635 9537 8607	4.0 3.9 3.9 4.1 4.2 4.4 4.0 3.8 3.7 3.7	378 453 324 370 377 399 351 331 431 357 328	2 1 6 3	10190 8750 8833 9360	424 417 323 337	2 6 1	8813 9094 9941	354 348 350
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	227 220 448 766 1349 2396 3985 5063 5699 5868 5780 7061 8930 2134	8927 10364 10874 10810 10692 10760 10865 10735 11013 11284 11480 11899 11946 11576	4.6 4.3 4.1 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	400 431 453 426 424 427 420 478 439 439 462 462 462	11 22 131 282 705 1665 3117 4037 4591 4478 4542 5624 8174	10886 10855 11371 11394 11099 10944 10827 11150 11515 11768 12036 11989 11581	452 432 438 420 423 423 422 418 428 443 460 455	2231 3381 4100 3352 4015 4108 4750 1343	10767 10800 10877 11025 11527 11773 12087	413 419 420 427 445 457 468 460

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	01.001 2	0, 3,00, 0,	ONEEDY C	, TEAN	0	ESHEW ING						
STUO	8REED	FRESHENING YEAR	RECOROS NO.	MILK L8.	TEST PCT.	FAT L8.	305-DAY CONT RECORDS NO.		FAT LB.	YEARLY H RECORDS NO.	HERO AVE MILK L8.	FAT L8.
000	GUERNSEY	1948 1950	2 3	6330 7247	5.4 4.9	339 353						
	HOLSTEIN	1947 1948 1949 1950 1951 1952	2 2 3	11825 14060 11725 14653 13373 11927 11845	3.4 3.6 3.3 3.3 3.3 3.2	397 500 387 490 443 391 434	1	11350 10160 12400	428 383 444			
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953	6 4 2 6 3 3	11825 10195 11725 10950 13373 11927 11845	3.4 4.5 3.3 4.1 3.3 3.2 3.6	397 419 387 422 443 391	1 1	11350 10160 12400	428 383 444			
001	AYRSHIRE	1959 1960	5 6	10248 10832	4.2 3.9	42d 424	3 6	10360 9870	4 18 387	5 5	8306 10554	425 410
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	9 7 15 25 48 98 185 245 294 271 199 72 28 3	6356 6763 7465 7471 7185 7411 7262 7250 7808 7891 7703 8012 8203 8590	4.9 5.3 5.1 5.2 5.0 5.0 5.0 5.0 5.0 4.9 4.8	310 360 377 386 362 370 361 361 365 395 379 385 406 416	2 3 6 11 26 70 163 225 280 263 189 60 25 3	6665 8333 7837 7808 7790 7991 7875 8038 8699 8919 8725 9130 9017 8980	342 403 382 358 377 366 574 403 413 407 420 388	137 189 263 242 176 62 25	7746 7959 8096 8821 8776 8627 8578 10715	361 375 380 417 416 402 424 417
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	15 21 78 283 477 659 992 1508 2142 2322 1958 1576 1380 213	11259 10904 11806 11565 11476 11643 11619 11505 12071 11880 11794 12802 12925 12730	3.4 3.6 3.6 3.6 3.6 3.5 3.5 3.5 3.5 3.5	381 387 426 417 412 418 416 400 427 420 415 449 458 452	2 20 104 264 466 852 1384 1984 2184 1836 1402 1279 174	13795 12687 12133 11844 11915 11763 11595 12000 12015 12003 12840 12876 12927	507 460 432 427 428 423 413 428 427 425 455 462	615 1132 1080 1868 1523 1289 1263 97	11481 11508 11553 12080 12070 11936 12211 12916	410 413 412 430 432 440 461 459
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 5 9 16 33 55 71 92 103 102 66 60 70	7250 8744 7792 7797 7018 7504 7545 7547 8287 7466 8117 8043 7585	5.0 5.1 5.0 5.2 5.3 5.2 5.4 5.3 5.3 5.3 5.3	365 439 364 404 395 389 401 432 395 418 433 424 387	5 13 25 40 51 50 61 44 31 50	8504 7851 7314 7546 7592 8206 7875 8296 8530 8126 7264	436 408 381 391 403 428 420 435 450 426 363	32 45 43 47 39 25 50	7597 7469 7682 7665 7973 8136 1242 7545	402 397 402 403 423 428 410 398
	8ROWN SWISS	1949 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 13 10 20 43 61 75 86 166 150	6800 8237 9135 10493 9680 9897 9587 10197 10742 10910 9834	4.0 4.1 4.0 4.0 4.1 4.1 4.1 4.0 4.0	273 333 368 414 389 401 392 411 432 434 389	4 3 5 20 43 52 57 82 108 37	11973 11893 9710 10299 10420 10311 10893 10827 11085 10267	478 492 398 417 423 413 442 436 444	2 18 40 46 47 80 115 36	8448 9694 9414 10190 10471 9321 9845	340 392 378 416 431 403 432 418
	M. SHORTHORN	1950 1951 1952 1953 1954	2 5 8 16 18	7760 9456 7173 7846	3.7 4.0 4.0 3.9	286 382 285 305	1 4 10	8860 8123 7907	331 314 315	6	7427	277

65 TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING URGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUO	8REEO	FRESHENING YEAR 1955 1956 1957 1958 1959 1960	RECOROS NO. 24 19 11 6 12 3	MILK L8. 7309 7581 7700 7918 8637 13543	TEST PCT. 3.9 4.1 4.0 4.1 4.0	FAT L8. 285 312 303 316 346 536		RDS		AV. FAT LB. 337 340 343 360 340 313	YEARLY I RECORDS NO. 18 11 9 5		ERAGE FAT L8. 277 305 290 340 356 338
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	25 33 103 326 576 830 1284 1906 2624 2789 2320 1880 1645 298	9334 9698 10774 11042 10807 10796 10701 10695 11351 11240 11255 12272 12413 11805	4.0 4.2 4.0 3.8 3.9 3.9 3.8 3.8 3.7 3.7 3.7	357 389 414 413 405 408 406 399 420 415 412 444 453 436	1 3 5 10 16 23 25 21 15	2 5 26 20 608 668 70 91 77 35 81 73	6665 10518 11568 11585 11325 11202 10968 10965 11474 11543 11593 12499 12489	342 444 442 428 421 419 412 407 425 425 452 458	792 1391 2044 2214 1794 1461 1466 152	10639 10848 10943 11569 11593 11577 11763 11633	400 407 406 427 430 436 455 441
002	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	6 11 24 42 27 18 13 12 3	8257 7686 7593 7652 7251 7674 7992 8330 7977	4.8 4.8 4.8 4.8 4.8 4.8 4.6	396 358 360 367 351 370 385 383 377 512		5 9 19 38 26 18 12 10 2 3	8292 7687 7721 7869 7362 7591 8282 8363 8220 9303	396 374 365 372 352 367 390 384 382 432	33 25 18 10 8 2	7678 7553 7796 7970 7484 8568 9363	373 372 375 394 355 403 450
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	313 225 286 424 623 1118 1479 1467 1377 997 642 333 181 26	11395 12026 12048 12124 11542 11766 11626 11457 11642 11578 11629 12302 12428 12478	3.5 3.5 3.6 3.6 3.6 3.6 3.6 3.5 3.5 3.5	396 417 425 436 418 426 422 419 413 411 432 438 439	1 3 8 13 13 13 9 6 2	12 19 62 63 552 315 340 385 322 363 305 889 71 25	11955 12766 12765 12447 11851 11933 11710 11705 11972 12029 11915 12669 12822 12908	413 441 452 447 428 431 422 418 428 428 429 449 458 463	994 1181 1151 862 527 271 173	11585 11548 11617 12067 11990 11965 12219 13383	417 417 416 433 432 457 478
	JERSEY	1952 1953 1954 1955 1956 1957	4 10 6 5 3 3	7240 7725 7137 7194 6010 6543	4.7 5.2 5.1 5.1 5.2 5.4	3 3 3 4 0 0 3 6 4 3 6 5 3 0 8 3 4 4		1 1 1	8570 8530 7560	409 430 455	1	8251	387
	BROWN SWISS	1953 1954 1955 1956 1957 1958 1959	12 10 7 5 7 6 2 3	7683 7344 9313 10364 9341 9407 11985 9023	4.3 4.0 4.0 4.1 4.3 4.2 4.3	334 297 372 408 383 412 495 382		5 4 3 2 1 1 2	10214 9668 11230 10643 9355 10520 11570 8905	420 388 475 440 382 421 478 379	2 4 3 5 2 1 1	9429 9606 9686 10068 9745 10671 12284 10660	387 390 407 431 406 421 505 445
	M. SHURTHORN	1953 1954 1955	2 1 1	10740 9410 8560	4 • 2 3 • 6 3 • 6	453 334 306		2 1 1	10620 10930 10740	413 405 396	2 1	9254 9995	374 416
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	313 225 286 430 634 1146 1545 1511 1408 1018 664 342 187	113y5 12026 12048 12070 11475 11662 11461 11536 11561 11510 11522 12214 123y7 12121	3.5 3.5 3.6 3.6 3.7 3.7 3.6 3.6 3.6 3.6 3.6	396 417 425 435 417 425 420 410 418 412 410 431 440 433	1 3 8 13 14 13 9 6 2	12 19 62 68 61 334 686 616 546 778 618 292 175 27	11955 12766 12765 12323 11747 11837 11595 11619 11908 11979 11842 12631 12755 12612	413 441 452 445 426 430 427 427 427 428 423 448 458		11448 11458 11554 12014 11915 11936 12171 13135	415 416 415 428 428 431 457
003	GUERNSEY	1950 1951	1 6	7850	5.0	392							

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUE) BREED	FRESHENING YEAR	RECORDS NO.	MILK	FEST PCT.	FAT LB.	305-DAY CON RECORE NO.		Y AV. FAT L8.	YEARLY H RECORUS NO.	HERD AVI	FAT LB.
		1952 1953 1954 1955 1956 1957 1958 1960	23 29 37 37 25 18 6	7626 7656 7488 7313 7074 7092 8097 6280	4.8 4.9 5.0 4.9 5.0 4.9 5.1	366 367 366 361 346 348 391 323	19 24 35 33 24 18	7967 8086 8422 5378 8552 9380	384 377 381 401 403 402 403 367	20 32 34 23 18 5	7868 7795 8357 8317 8773 8916	363 368 397 399 414 399
	HOLSTEIN	1949 1950 1951 1952 1953 1754 1955 1956 1957 1958 1959	8 7 9 17 31 51 65 60 53 47 57	11589 12086 11752 13446 12383 10893 10863 11069 11269 11987 12674 12939	3.5 3.6 3.7 3.5 3.6 3.7 3.7 3.7 3.7 3.6 3.6	406 431 428 471 443 399 400 404 410 426 469 463	7 12 30 50 50 50 50 50 50 50 50 50 50 50 50 50	129o7 13248 12165 11723 11198 11287 11451 11806 11725 12029	502 474 466 437 427 411 413 415 422 447 502	23 44 60 55 37 37 54	12467 11442 11066 11530 11580 11611 12479 12655	434 408 402 422 410 415 461 441
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 9 12 16 13 22 26 27 21 20 22 20 16	9030 9103 9606 9534 9435 9476 9292 8870 8797 8755 8841 8623 10084 8520	5.0 5.4 5.3 5.3 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	438 487 503 498 498 490 485 463 458 440 462 447 521 406	11 8	9315 7384 7285 7615 7890 8853 9110 8648	558 541 588 381 411 407 457 456 460	7 10 3 8 6 4 7	8111 7778 6489 0151 0353 8227 8139 7853	431 413 335 428 440 433 428 407
	BKUWN SWISS	1958 1959	2	12360 6340	4.3 4.1	527 261	!		597 365	1	13549 9211	578 338
	M. SHORTHORN	1952 1953 1954	1 1 2	5730 7750 6555	3.9 4.0 4.1	222 308 264	2	8600	358 349 286	1 2	6148 6823	237 268
	ALL BREEUS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 9 20 24 28 63 87 117 123 105 93 75 74	9030 9103 10399 10208 9771 9812 9830 9275 9442 9677 9886 10788 12028 10885	5.0 5.4 4.6 4.8 4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0	438 487 464 474 443 435 430 401 398 397 410 432 478 433	12 35 66 98 10 9 7: 55 61	12967 10337 9627 9729 9570 10040 10301 10749 11319 11572	502 474 427 412 402 395 409 411 420 430 447	51 85 97 86 61 49 62	9942 9594 9975 10356 10434 11099 11936 8814	402 391 398 416 414 418 456 414
004	A YRSH1RE	1958 1959 1960	10 19 3	8911 9947 9273	4.2 4.2 4.3	366 421 402	18	10412	389 415 440	9 10 3	8886 9872 9625	399 410 393
	GUERNSEY	1951 1952 1953 1954 1955 1956 1957 1958 1959	1 3 34 93 136 115 99 64 57	5670 6377 7612 7721 7982 8243 8102 8517 8845 7863	4.8 5.1 4.7 4.9 4.8 4.8 4.8 4.8	274 328 358 372 383 397 385 406 420 364	3 3 8 133 107 9,5 55	7120 8610 8055 8116 8609 8861 9069 9117	384 335 382 383 382 402 409 420 426 380	22 69 120 95 82 45 52 3	8916 8194 6229 8765 8628 8955 9345 9414	376 389 388 410 405 416 436 445
	HULSTEIN	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 40 182 516 879 1117 1316 1263 1371 1380 189	13606 12542 12085 11884 11438 11893 12078 12116 12908 12937	3.6 3.7 3.7 3.6 3.7 3.6 3.7 3.6	440 434 416 433 439 440	33 14 45 821 103 117 115 123 128	2 12550 2 12212 6 11923 5 11581 6 12034 1 12079 1 12207 6 12880	472 458 438 429 416 436 437 443 469 471	303 737 924 1008 1057 1145 1246	11709 11547 11627 11892 12183 11938 12526	421 418 419 430 442 452 477

Section 1885 1985	STUD	8KEED	FRESHENING	RECORDS	MILK	TEST		305-DAY CONTE RECORDS	MILK	FAI	YEARLY F	MILK	FAT
19-53 5-8 875 5-0 5-		II DELV	YEAR	NO.	L8.	PCT.	L8.	NO.	LB.	LB.	NO.	L8.	LB.
1995 19		JERSET							6713	349	5	1018	365
1956 1962													
1957 18 8002 5.2 140 12 9036 455 12 9006 901													
1956 1976 27 8876 5.1 27 15 8847 433 13 8678 806 206													
1939 30													
1960 192 3 3917 41,5 436 3 3 3 3 3 3 3 3 3													
1955 6 9037				12				12	8461	401	3	8066	396
1954 11 9568 1.0 363 6 9577 373 4 9168 371 1958 1959 10 10 10 10 10 10 10 1	8	BROWN SWISS									,	0672	300
1955 10 12/16 10 12/16 10 10 10 10 10 10 10													
1997 26 10773 1.2 140 16 16 16 16 16 16 16 1													
1998 58 1175 4.0 408 30 11860 466 50 1084 4.55													
1999 62 11055 8.0 847 48 11056 841 58 10606 843													
N. SHORTHORN													
1954													
1955 3 8960 3.9 250 2 6020 209 2 6013 259	h	4. SHORTHORN											
1956													
1976													
ALL BREEDS 19-90 11 9023 5.8 338 10 8605 334 9 7039 300 ALL BREEDS 19-00 5 13006 3.5 297 1 6350 477 ALL BREEDS 19-91 5 13006 3.6 497 2 13300 477 19-91 19-92 190 119-95 3.7 4.8 485 5.3 12476 4-56 19-92 190 119-95 3.7 4.8 485 5.3 12476 4-56 19-93 5.05 115-68 5.7 427 4.98 116-51 425 332 11450 417 19-94 1006 109-97 3.8 411 936 111-66 413 626 111-66 415 19-95 12-51 11-41 3.8 428 11-67 11-550 4-50 19-97 11-11 117-45 3.8 428 11-67 11-550 4-50 19-97 11-11 117-45 3.8 428 11-67 11-550 4-50 19-99 13-11 117-45 3.8 428 11-67 11-550 4-50 19-99 13-11 117-45 3.8 428 11-67 11-550 4-50 19-99 13-11 117-45 3.8 428 11-67 11-550 4-50 19-99 13-11 117-45 3.8 428 11-67 11-550 4-50 19-99 13-11 117-45 3.8 428 11-67 11-550 4-50 19-99 13-11 117-45 3.8 428 11-67 11-67 4-50 19-99 13-11 117-45 3.8 428 11-67 11-67 4-67 4-67 4-67 4-67 4-67 4-67 4-67 4													
ALL BREEDS 1950 5 13600 3.5 297 1 6.550 259 ALL BREEDS 1950 5 13600 3.6 497 2 13500 472 ALL BREEDS 1950 5 13600 3.6 497 2 13500 472 1951 41 12734 3.8 465 33 12426 456 1953 93 1914 1915 3.7 488 1 18208 456 1954 106 10947 3.8 411 936 11155 4176 413 826 111166 415 1955 126 11411 3.8 426 11167 11550 430 1155 427 1957 1411 11745 3.8 436 1277 11899 440 1170 11855 439 1958 1552 12625 5.7 468 1346 12624 465 1244 11738 450 1958 1552 12625 5.7 468 1346 12624 465 1244 11738 450 1959 1559 12545 3.8 486 1145 12508 466 1262 12762 473 1959 1559 12545 3.8 486 1145 12508 466 1262 12762 473 1959 1559 12745 3.8 486 1145 12508 466 1262 12762 473 1959 1550 1276 5.0 334 4 7243 352 1950 7 6607 5.0 334 4 7243 352 1951 1952 14755 5.0 326 5 6868 355 1950 1955 8 7885 5.4 410 7 7 8661 410 7 8760 429 1955 8 7885 5.4 410 7 7 8661 410 7 8760 429 1959 1559 1280 4.7 415 444 48 955 452 2 9036 453 1959 1550 1750 5.0 326 5 6868 355 1950 7 8606 4.7 415 44 9556 452 3 9266 444 1957 7 8826 4.7 415 4.9 458 4.9 459 4.9 420 422 1 9298 438 HOLSTEIN 1953 1 11110 5.7 468 1959 1 12720 3.4 428 1 12080 455 1 12677 452 1959 1 12720 3.4 428 1 1109 449 1 9006 368 368 1 1956 483 1 1959 1 10768 368 1 1956 4 1 1 1956 4 1 1 1956 4 1 1 1956 4 1 1 1956 4 1 1 1956 4 1													
1951											9	7939	306
1951		ALL BREEDS											
1953 563 11568 5.7 429 498 11651 425 532 11450 415 415 1954 1006 10097 3.8 411 936 11166 413 826 11186 415 1955 1285 11411 3.8 428 1117 11550 430 1165 1155 11													
1954			1952		11935	3.7	438	154	12098	436			
1955													
1956													
1977													
1999													
1960 225 11705 5.8 438 213 11917 448 97 11781 446													
1948													
1949	005	GUERNSEY	1947	3	7263	5.6	407						
1950													
1951													
1952													
1954													
1956													
1956													
HOLSTEIN													
1958													
HOLSTEIN 1953										427			
1954				2				2	8370	422	1	9298	438
1955		HOLSTEIN						1	12040	11.26	,	10477	1,60
ALL BREEDS 1947 3 7263 5.6 407 ALL BREEDS 1947 3 7263 5.6 407 1948 9 6669 4.9 329 1 7140 338 1949 8 7908 4.9 3866 3 7350 365 1950 7 6607 5.0 334 4 7223 352 1951 6 6592 5.0 326 5 6868 335 1952 14 7551 5.0 374 8 7623 367 1953 19 7451 4.9 360 16 8258 388 5 9208 419 1954 13 8556 4.7 392 8 9105 406 7 9548 436 1955 12 8643 4.9 410 8 8720 409 8 8949 430 1956 9 9948 4.5 447 5 10270 452 4 9426 423 1957 7 8826 4.7 415 4 9538 432 2 2 9036 439 1958 6 8432 4.9 407 2 9170 427 1959 3 9037 4.2 390 2 8570 422 2 9767 461 006 GUERNSEY 1947 17 7625 4.9 407 2 9170 427 1948 15 7165 5.2 367 1949 12 7093 5.2 366 1 8410 452 1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7928 395 3 8531 440 1955 1 5420 5.4 391 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7928 395 3 8531 440 1955 1 5420 5.4 366 5 7928 395 3 8531 440 1955 1 5420 5.4 356 1 7290 343 1 7892 392 1955 1 5420 5.4 4.9 391 1 7800 364 1 7063 343													
ALL BREEDS 1947 3 7263 5.6 407 1948 9 6669 4.9 329 1 7140 338 1949 8 7908 4.9 386 3 7550 365 1950 7 6607 5.0 334 4 7243 352 1951 6 6592 5.0 326 5 6868 335 1952 14 7551 5.0 374 8 7629 367 1953 19 7451 4.9 360 16 8258 388 5 9208 419 1954 13 8556 4.7 392 8 9105 406 7 9548 436 1955 12 8643 4.9 410 8 8720 409 8 8949 430 1956 9 9948 4.5 447 5 10270 452 4 9426 423 1957 7 8826 4.7 415 4 9558 432 2 9036 439 1958 6 8432 4.9 407 2 9170 427 1959 3 9637 4.2 390 2 8570 422 2 9767 461 006 GUERNSEY 1947 17 7625 4.9 370 2 8960 412 1948 15 7165 5.2 367 1949 12 7093 5.2 366 1 8410 452 1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 364 2 7595 377 1952 4 7943 4.9 361 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7028 395 3 8531 440 1955 1 5420 5.4 293 1 7800 364 1 7063 343													
1948			1959	1	12720	3.4	428				1	10235	483
1949		ALL BREEDS							711.0	170			
1950													
1951													
1953					6592	5.0	326		6868				
1954												0000	
1955 12 8643 4.9 410 8 8720 409 8 8949 430 1956 9 9948 4.5 447 5 10270 452 4 9426 423 1957 7 8826 4.7 415 4 9538 432 2 9036 439 1958 6 8432 4.9 407 2 9170 427 1959 3 9637 4.2 390 2 8370 422 2 9767 461 006 GUERNSEY 1947 17 7625 4.9 370 2 8960 412 1948 15 7165 5.2 367 1949 12 7093 5.2 366 1 8410 452 1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7926 395 3 8531 440 1955 1 5420 5.4 293 1 7890 364 1 7063 343													
1956 9 9948 4.5 447 5 10270 452 4 9426 423 1957 7 8826 4.7 415 4 9538 432 2 9036 439 1958 6 8432 4.9 407 2 9170 427 1959 3 9637 4.2 390 2 8370 422 2 9767 461 006 GUERNSEY 1947 17 7625 4.9 370 2 8960 412 1948 15 7165 5.2 367 1949 12 7093 5.2 366 1 8410 452 1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7920 395 3 8531 440 1955 1 5420 5.4 293 1 7800 364 1 7892 392													
1958 6 8432 4.9 407 2 9170 427 2 9767 461 006 GUERNSEY 1947 17 7625 4.9 370 2 8960 412 1948 15 7165 5.2 367 1949 12 7093 5.2 366 1 8410 452 1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7920 395 3 8531 440 1954 2 5915 4.3 256 1 7290 343 1 7892 392 1955 1 5420 5.4 293 1 7800 364 1 7063 343			1956	9	9948	4.5	447	5	10270	452	4	9426	423
1959 3 9637 4.2 390 2 8370 422 2 9767 461 006 GUERNSEY 1947 17 7625 4.9 370 2 8960 412 1948 15 7165 5.2 367 1949 12 7093 5.2 366 1 8410 452 1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7926 395 3 8531 440 1954 2 5915 4.3 256 1 7290 343 1 7892 392 1955 1 5420 5.4 293 1 7800 364 1 7063 343											2	9036	4 39
1948 15 7165 5.2 367 1949 12 7093 5.2 366 1 8410 452 1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7926 395 3 8531 440 1954 2 5915 4.3 256 1 7290 343 1 7892 392 1955 1 5420 5.4 293 1 7800 364 1 7063 343											2	9767	461
1948	006	GUERNSEY				4.9	370	2	8960	412			
1950 8 7335 4.8 349 3 8007 413 1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5 7928 395 3 8531 440 1954 2 5915 4.3 256 1 7290 343 1 7892 392 1955 1 5420 5.4 293 1 7800 364 1 7063 343					7165	5.2	367						
1951 6 7480 4.9 304 2 7595 377 1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7928 395 3 8531 440 1954 2 5915 4.3 256 1 7290 343 1 7892 392 1955 1 5420 5.4 293 1 7800 364 1 7063 343													
1952 4 7943 4.9 391 4 8525 425 1953 5 7216 5.1 366 5 7928 395 3 8531 440 1954 2 5915 4.3 256 1 7290 343 1 7892 392 1955 1 5420 5.4 293 1 7800 364 1 7063 343													
1953 5 7216 5-1 366 5 7928 395 3 8531 440 1954 2 5915 4-3 256 1 7290 343 1 7892 392 1955 1 5420 5-4 293 1 7800 364 1 7063 343			1952	4	7943		391	4					
1955 1 5420 5.4 293 1 7800 364 1 7063 343									7928	395			

TABLE 10.--AVERAGE OF THE RECORDS OF OAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUO	BREEO	FRESHENING YEAR 1958	RECOROS NO.	MILK LB. 5690	TEST PCT. 4.4	FAT LB. 249	305-DAY CONTE RECORDS NO.	EMPORARY MILK LB. 6340	AV. FAT LB. 302	YEARLY F RECURUS NO.	HERO AVE MILK LB. 6660	FAT Lö. 325
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	85 34 32 37 28 24 19 9 7 6 3 2	11303 13077 13427 12098 11226 12127 12448 13149 11030 10800 9160 12810 14690	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.7 3.7 4.1	402 475 481 441 404 435 445 468 378 413 331 466 604	1 3 11 11 12 17 8 5 6 3 2	11170 12433 12955 11716 12556 12314 11728 11464 11688 11583 11735 12230	413 466 400 415 446 437 416 393 424 428 421 454	10 / 6 4 2	11523 11598 11701 11990 12306 11669	407 422 412 438 463 416
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	102 49 44 45 34 28 24 11 8 6 4	10690 11267 11700 11251 11529 11358 11834 10329 10300 8435 5690 12810	3.8 4.1 4.0 3.9 3.8 3.8 3.7 3.7 3.7 4.0 4.4 3.7	397 442 455 397 428 428 430 368 413 324 249 466	3 4 14 13 16 22 9 6 6 4 1 2	9697 11428 11895 11082 11548 11317 11234 10853 11668 10450 6340 11735 12230	412 462 450 409 427 407 388 424 404 302 421 454	13 8 7 4 3 1 2	10832 11134 11039 11990 10526 6660 11669	415 418 402 438 423 325 416
007	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	21 10 21 17 14 17 24 24 8 10 5	6838 7859 7882 7529 6830 6963 7727 7937 7765 8990 8350 9050	5.1 5.0 4.8 4.9 5.0 5.0 4.9 5.0 5.1 5.1	346 404 392 357 333 349 388 387 391 459 429 471	1 1 4 8 14 16 5 6 3 2	7440 5210 8505 8650 7662 8124 7950 8623 8775	362 267 435 404 364 387 378 398 412 440	9 16 1 5 3 2	8031 8184 8339 8299 8142 8502	389 398 404 399 402 414
	HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	3 6 6 6 12 7 5 4 4 4	10280 9613 10880 10133 10178 10609 11890 12390 11760 11428 16430	4.2 3.7 3.7 3.6 3.7 3.5 3.5 3.5 3.6 3.7 3.6	429 360 394 369 370 368 413 426 424 417	2 4 11 7 5 4 3	6990 10455 9958 10227 10251 10754 11523 11527 11195 11210	316 383 375 361 374 386 458 423 427 403	3 7 5 3 4 4	10043 9000 11201 11845 10505 11083 11718	392 355 406 433 385 409 411
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	21 10 24 23 20 23 36 31 13 14 9	6838 7859 8182 8073 8045 7790 8544 8540 9961 9866 10107 16430	4.6 4.6 4.6 4.4	346 404 396 358 351 354 382 383 399 450 426 447 596	1 3 8 12 25 23 10 10 6 6	7440 6397 9480 9086 8791 8772 9352 9352 10075 10388 11210	362 300 409 394 371 383 382 414 418 431	12 23 0 8 7 6	8534 8615 10724 9629 9492 10222 11718	390 385 406 412 392 411 411
008	GUERNSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	3 2 7 4 3 6 3 2 1	6913 9415 7821 8838 8323 7998 9420 11140 12200 6790 8600	4.5 4.7 4.9 4.7 4.7 4.9 5.1 4.8 4.7	313 440 380 434 392 376 455 569 590 317 407	2 2 2 5 3 2 1 1	7265 7370 7230 7534 8790 11040 10000 10910 9840	546 351 322 367 405 554 510 407 359	1 3 2 1 1	7140 7935 7870 9003 9766 9385	328 395 384 427 362 372
	HOLSTEIN	1952 1953 1954	2 1 1	12005 11250 14190		424 385 476	1 1 1	10100 11050 10410	398 412 390	}	8764 10431	368 407

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR 1955 1956	NO.	MILK LB. 1130 3630	TEST PCT. 3.5 3.7	FAT LB. 391 505	305-DAY CONTE RECORDS NO. I	EMPORARY MILK LE. 11970 11420	AV. FAT LB. 476 435	YEARLY I RECORDS NO. 1	HERD AVI MILK LB. 10344 11380	ERAGE FAT LB. 410 451
	ALL BREEDS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	2 7 4 5 7 4 1 3 1 2	6913 9415 7821 8838 9796 8463 0613 1137 2915 6790 8600	4.5 4.7 4.9 4.3 4.5 4.6 4.3 4.7	313 440 380 434 404 377 401 509 548 317 407	2 2 3 6 4 3 2 1	7265 7370 8187 8120 9195 11350 10710 10910 9840	346 351 347 374 401 528 473 407 339	2 4 3 2 1	7952 8559 8695 10192 9766 9385	348 398 393 439 362 372
010	GUERNSEY	1949 1950 1951 1952 1953 1954 1955	3 2 1 1 1	8110 8017 6520 9010 8040 8460 8460 8950	5.8 5.1 4.5 4.4 5.1 4.3 4.7	466 405 294 398 412 365 417 509	1 1 1 1 1 1	9680 8360 8900 9110 8040 7310 7660	504 397 468 423 385 364 370	1 1	8480 8644 8230	4 1 4 4 1 0 4 0 4
	HOLSTEIN	1949 1950 1951 1952 1953 1954	4 1 2 1 4 1 4 1 4 1	9820 0148 4035 2638 2648 0260 4130	4.1 4.2 3.5 3.7 3.7 3.5 4.0	404 416 489 471 471 355 572	2 1 1	11305 13080 10240 10980	374 448 385 399	1 1	12361 9330 10595	415 352 389
	ALL BREEDS	1949 1950 1951 1952 1953 1954 1955	7 4 1 5 1 5 1 5 2	9393 9234 0278 1912 1726 9900 1540 0870	4.5 4.6 4.0 3.9 4.0 3.6 4.4 4.7	419 411 392 456 459 357 495	1 1 3 2 2 2 1	9680 8360 10503 11095 9140 9145 7660	504 397 405 436 385 382 370	1 2 2 1	12361 8905 9620 8230	415 383 400 404
011	GUERNSEY	1953 1954		7830 7810	4.9 4.8	382 378	† 1	7010 7000	359 350	1	6802	391
	HOLSTEIN	1952 1953 1954 1955 1956 1957 1958 1959	5 1 1 2 1 1 1 1 1 1	1850 0766 9810 1395 5180 2160 0230 0150	3.7 3.9 4.4 3.9 4.0 3.6 3.7 4.0	433 410 436 434 206 435 375 410	1 3 1 2 1 1 1	12450 12300 10650 10360 11810 14200 14650 11500	467 439 394 378 424 494 534 419	3 1 2 1	11518 11772 11653 11303 13571 12938	416 461 431 423 464 470
	ALL BREEDS	1952 1953 1954 1955 1956 1957 1958 1959	6 1 2 2 1 1 1 1 1 1	1850 0277 8810 1395 5180 2160 0230 0150	3.7 4.0 4.6 3.9 4.0 3.6 3.7 4.0	433 406 407 434 206 435 375 410	1 4 2 2 1 1 1	12450 10978 8325 10360 11810 14200 14650 11500	467 419 372 378 424 494 534 419	3 2 2 1	11518 9287 11653 11303 13571 12938	416 426 431 423 464 470
012	GUERNSEY	1947 1948 1949 1950 1951 1953 1955	8 10 4 1 2	6551 7125 6942 5880 9140 6185 9070	5.3 5.4 5.3 4.9 5.1 5.4 5.3	350 381 360 286 466 333 485	1 1 1 1 2	7130 7910 9160 8990 7440 11110	341 400 471 472 364 547	1	8371 7870	407 384
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955	39 1 32 1 14 1 7 1 7 1 4 1 7 1 3 1	2387 3139 2487 3756 3264 3490 4230 4230 3353 4067 2570	3.6 3.6 3.5 3.4 3.3 3.4 3.2 3.2 3.1	440 471 442 461 441 453 451 427 440 438	5 2 4 6 5 6 4 7 3	12426 11720 13495 13535 12516 12227 12898 12479 13367 10710	437 423 467 445 412 412 417 437 475 403	3 7 3 1	12913 12510 13738 10192	432 423 483 382
	ALL BREEDS	1947 1948 1949 1950	47 1	1853 2116 1166	3.7 3.9 4.0	432 456 424	6 3 5	11543 10450 12628	421 415 468			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED 8Y STUD, 8Y BREED, 8Y YEAR OF FRESHENING

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STUD 8REE	YEAR 1951 1952 1953	RECORDS MILK NO. L8. 8 12749 7 13490 6 11548	PCT. L 3.6 4 3.4 4 3.9 4	FAT L8. 444 453 411	305-DAY CONTE RECORDS NO. 5 6	M1LK L8. 12516 12227 11078	FAT L8. 412 412 420	YEARLY FRECORUS	MILK LB.	FAT LB.
	1954 1955 1957	7 13353 4 12818 1 12570	3.7 4	427 451 438	7 4 1	12479 12803 10710	437 493 403	7 4 1	12510 12271 10192	423 459 382
013 GUERNS	EY 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	9 6332 11 7281 18 7611 17 7381 13 8255 11 8572 4 8128 4 9065 3 9537 2 8130 1 8590	4.7 3 4.8 3 4.7 3 4.6 3 4.7 3 4.6 4 4.4 4 5.0 4	259 339 366 354 385 387 389 413 419 410 386	3 3 5 3 4 3 2 1	8857 9643 9180 9027 9468 10723 8080 9780	409 449 416 431 424 500 368 381	3 4 3 2 1	8847 9540 10846 8546 8088	435 434 500 390 335
HOLSTE	IN 1949 1950 1951 1952 1953 1954 1955	1 13/30 2 133/5 1 11900 2 14210 2 13205 1 12450 1 14880	3.3 4 3.5 4 3.4 4 3.3 4 3.4 4 3.1 4	453 450 411 475 439 428 465 417	1 1 2 2 1 1	13440 12160 10040 11370 11365 11670 11500 12020	433 396 420 432 396 469 414 465	2 1 1	11500 11543 12590 12579	423 448 491 477
ALL BRE	EOS 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	9 6332 11 7281 19 7333 19 8064 14 8515 13 9439 6 9820 5 9742 4 10873 3 9513	4.7 4.8 4.7 4.6 3 4.4 4.3 4.3 4.3 4.1 4.5	259 339 370 364 386 401 405 416 431 412 386	1 4 4 7 5 5 4 3	13440 9683 9743 9806 9962 9908 10918 9393 9780	433 466 442 420 417 433 479 400 381	5 5 4 3 1	9908 9941 11282 9890 8088	430 437 498 419 335
014 GUERNS	EY 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 8625 2 8970 4 8943 11 7254 43 7438 83 7398 122 7758 137 7428 147 7593 114 7813 79 7729 39 7705 32 7599 5 7058	4.7 L 5.0 L 4.9 3 4.9 5 5.0 3 5.0 3 5.0 4.9 3 5.0 4.9 5	423 415 429 355 364 360 382 388 388 385 383 387 377 322	4 25 60 110 122 130 99 62 34 27 5	9243 8388 8017 7950 8071 8462 8378 9047 8486 8686	442 401 379 384 370 386 402 400 420 404 377	92 110 103 64 61 26 24	8280 7919 7816 8341 8466 8816 8978 8484	390 380 374 393 409 421 433 382
HOLSTE	IN 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	23 11025 29 12627 46 10927 87 11237 190 11163 366 11713 533 11422 555 11396 466 11683 378 11588 260 11705 123 12525 81 12373 12 10940	3.5 1 3.5 3.6 3.6 4 3.6 4 3.6 4 3.7 4 3.6 4 3.7 4	382 439 384 399 418 419 425 420 425 425 425 425	2 3 6 45 122 277 473 511 433 339 232 111 76	14690 13743 13265 11701 11591 11935 11671 11497 11939 11985 12082 12927 12655 12812	528 484 470 416 415 429 413 433 429 437 469 470 450	324 450 378 258 204 101 71	11402 11568 11673 11803 12016 12418 12399 12977	406 416 420 427 436 462 465 471
JERSE	Y 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 8486 5 9826 14 7431 24 7384 33 6591 54 7380 80 7535 74 7262 50 6982 33 7028 20 7357 10 8606 10 8077 2 8835	5.2 5.3 5.2 5.4 5.2 5.3 5.1 5.3 5.1 5.3	407 506 385 386 393 386 393 382 357 375 375 461 418	1 5 4 16 36 61 53 38 23 9 5	9060 8958 9328 8189 8166 7777 7849 7558 8049 8503 7566 8208 8890	452 453 460 434 428 401 410 384 433 450 413 425 499	41 54 37 20 8 6 8	7365 8100 7632 7864 7810 8517 8359 9156	388 424 396 412 406 452 447 511

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR	RECORDS	MILK	TEST PCT.	FAT LB.	305-DAY CONT RECORDS NO.		AV. FAI L8.	YEARLY RECORDS NO.		ERAGE FAT L8.
E	BROWN SWISS	1951 1952 1953 1954 1955 1956 1957 1958 1959	1 15 14 14 8 8 4 14 3	11040 7378 10181 10233 10302 10713 9820 11925 11601 9527	3.4 3.7 3.9 3.9 4.0 3.8 3.8 4.0 4.2	371 269 391 399 411 406 372 454 468 402	4 11 10 6 8 3 11	11443 11106 10260 11265 9988 10790 11348 10675	444 427 411 430 388 426 466 430	8 10 9 6 5 2 12 2	10498 9936 8990 10615 10861 9429 11611 11069	407 390 353 413 430 354 511
P	. SHORTHORN	1952 1953 1954 1955 1956 1957 1958 1959	1 2 7 9 6 4 5	9160 9640 8247 7887 7505 7680 8208 7490	4.0 4.0 3.7 3.9 3.9 3.8 4.2 4.0	363 383 307 309 292 293 335 302	1 6 7 4 4	8270 8870 8240 8701 9065 8893 9493 8685	307 341 311 333 331 329 359 338	1 5 7 4 4 3	7979 8293 7758 7091 8862 8205 7881	292 318 291 269 335 306 299
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	29 36 64 122 267 508 752 787 686 539 371 181	10519 12035 10038 10112 9997 10508 10384 10268 10386 10452 10540 11181 10770 9674	3.8 3.8 4.0 4.0 4.0 4.0 4.0 4.1 4.0 4.0	389 447 387 386 386 404 402 401 409 4C8 411 439 436 380	2 4 11 53 163 374 649 703 618 471 315 157 127	14690 12573 11307 11337 10766 10934 10670 10521 10792 11018 11157 11788 11216 10993	528 476 462 421 415 420 411 405 418 423 427 453 448 433	466 ,629 534 352 282 139 118 13	10407 10580 10552 10876 11063 11412 11234 11353	401 409 407 418 428 448 469 452
015	GUERNSEY	1952 1953 1954 1955 1956 1957	2 2 2 4 2 3	8165 7850 8685 7638 9800 8420 10110	4.4 4.5 4.5 4.8 4.7 5.0	353 354 394 366 468 417 473	1 2 2 4 2 3	7760 7985 7755 8118 7795 8210 7970	362 359 368 392 382 395 395	2 2 3 2 3 1	7401 8088 8789 8012 8451 8295	335 372 417 389 417 396
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	2 3 10 15 9 87 97 89 50 33 19	16740 14203 11359 11789 9902 11575 10513 10531 10727 11182 11684 12007 13662	4.0 3.8 3.7 3.8 3.5 3.7 3.7 3.7 3.7 3.8 3.5 3.5	664 541 416 439 348 423 387 393 406 405 407 416 479	1 4 36 76 89 67 45 29 17 6	13560 12923 11369 11235 11191 10938 11194 11470 11310 11805	466 433 417 409 405 403 405 414 420 439	63 83 85 43 24 18	11099 11194 10765 11186 11412 11063 12869	395 402 396 416 407 419 476
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958		16740 14203 11359 11789 9902 11463 10453 10453 10594 11129 111412 11913 13662	4.0 3.8 3.7 3.8 3.5 3.7 3.7 3.8 3.9 3.7 3.6 3.6 3.5	664 541 416 439 348 421 387 393 404 407 408 419 479	1 4 39 78 91 91 47 32 18	13560 12923 11276 11152 11116 10814 11049 11165 11124 11805	466 433 416 408 404 402 404 413 418 439	65 85 88 45 27 19 6	10985 11121 10698 11045 11083 10917 12869	393 402 397 415 408 418 476
016	GUERNSEY	1947 1948 1949 1952	4 2 3 1	8433 7185 7097 9100	5.1 5.3 4.8 4.5	424 374 334 411						
	HOLSTEIN	1947 1948 1949	4 2 1	14100 16810 9770	3.0 3.3 2.9	422 553 286						
	ALL 8REEDS	1947 1948 1949	8 4 4	11266 11998 7765	4.1 4.3 4.3	423 463 322						

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	0,,00, 5	D D. 3.00, 3.	Onced, c	, tean	01	ESTITITION OF						
STUD	8REED	FRESHENING YEAR 1952	RECORDS NO.	MILK L8. 9100	TEST PCT. 4.5	FAT LB. 411	305-DAY CONTI RECORDS NO.	MPORARY MILK LB.	AV. FAT L8.	YEARLY F RECURDS NO.	HERD AVE MILK L8.	FAT LB.
017	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	7 4 20 45 56 48 61 48 36 23 21 7	8013 7765 7556 7318 7379 7576 7976 7976 8176 8710 7992 8453 9230	4.8 4.8 5.0 5.0 4.9 4.8 4.8 4.7 4.7	358 375 363 361 362 372 385 377 393 414 376 393 456	4 15 28 37 48 43 33 22 16 7	8108 8308 8590 8153 7736 8161 8596 9439 8971 9633 9370	409 380 395 382 372 380 396 423 412 436 408	33 35 32 21 16 6 2	8068 8079 8573 9415 8619 9554 10748	379 384 394 428 403 436 450
	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 20 42 143 363 620 802 793 648 447 268 171	9660 13259 12220 12164 11935 11894 11680 11966 11881 11893 12423 12589 12166	3.3 3.4 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6	322 451 431 428 425 415 427 427 427 427 4447 454	7 10 72 242 540 741 731 600 416 228 155	12154 12319 12089 11813 11687 11693 11979 12087 12114 12830 12616 13085	423 450 434 427 421 420 431 435 438 464 460	378 661 677 547 381 211 155	11543 11561 11621 11978 12071 12052 11966 13359	414 417 417 431 437 451 467 487
	JERSEY	1947 1948 1949 1950 1951 1952 1953	5 4 5 3 3 2 1	6550 7895 8568 9750 9127 8913 7820 7790	5.4 5.2 5.3 4.9 5.0 5.5 5.1	356 409 451 477 454 493 403 356	1 1 1 2 2 2 1	10080 9550 12040 8480 9180 8640 9375 7810	493 505 546 423 502 462 491 418	2 1	8868 8611	470 425
М	• SHORTHORN	1947 1949 1950	3 2 2	8580 10455 7470	4.2 3.4 3.6	364 353 271						
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	15 9 47 92 202 414 683 851 829 671 468 275 173 28	7639 8033 10214 9639 10792 11407 11532 11466 11801 11772 11718 12322 12550 12166	4.7 4.8 4.2 4.3 4.0 3.8 3.7 3.6 3.6 3.6 3.7	359 384 409 395 412 422 421 413 426 426 426 446 444	1 12 26 102 281 590 785 764 628 432 235 157 27	10080 9550 10796 9857 11072 11308 11358 11495 11833 11994 11997 12735 12575 13085	493 505 429 408 425 421 417 418 429 434 437 463 459 473	413 697 709 568 391 217 157	11252 11382 11483 11883 11932 11983 11951 13359	4 12 4 15 4 16 4 31 4 35 4 50 4 67 4 8 7
019	GUERNSEY	1950 1951 1952 1953 1954	1 2 2 1 1	10800 8545 9085 8280 9790	4.1 4.9 5.4 5.1 4.9	447 414 487 423 478	1 2 1	8410 8945 9080 8430	419 358 446 421	1	9341	451
	HOLSTEIN	1950 1951 1953 1954 1956	1 1 1 1	12500 13770 14450 11750 13840	3.8 3.9 3.4 2.9 2.9	469 542 485 340 404	1 1 1	12040 13040 12520	429 422 386	1	12633	426
	ALL 8REEDS	1950 1951 1952 1953 1954 1956	2 3 2 2 2 2	11650 10287 9085 11365 10770 13840	4.0 4.6 5.4 4.3 3.9 2.9	458 456 487 454 409 404	1 2 2 2 2	8410 8945 10560 10735 12520	419 358 438 422 386	}	9341 12633	451 426
020	HOLSTEIN	1948 1949 1950 1952 1954 1955 1956	2 3 2 2 2 5 9	10595 12533 13005 11970 12260 12490 11212	3.6 3.5 3.4 3.3 3.5 3.6 3.5	383 431 442 390 430 443	1 1 1 2 2 5 9	11190 9750 10780 11135 11595 12356 12770	401 362 364 374 407 434 443	1 2 5	11957 11669 11731	4 17 401 418

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BRLED, BY YEAR OF FRESHENING

C THID	99550	EDECHEMINE	2550205		TV.C.T	5 A T	305-DAY CONT			YEARLY I		
STUD	8REE0	FRESHENING YEAR 1958	RECUROS NO. 2	MILK L8. 14140	PCT. 3.6	FAT L8. 509	RECORDS NU. I	LB. 14440	FAT L8. 475	RECUROS NO. 1	MILK L8. 15478	FAT L8. 520
	ALL UDEEDE	101.0	2	10505	, ,	7.17	,	11100				
	ALL BREEDS	1948 1949	2	10595 12533	3.6 3.5	383 431	1	11190 9750	401 362			
		1950	2	13005	3.4	442	i	10780	364			
		1952	2	11970	3.3	390	2	11135	374			
		1954	2	12260	3.5	430	2	11595	407	1	11957	417
		1955	5	12490	3.6	443	5	12356	434	2	11669	401
		1956	9	11212	3.5	391	9	12770	443	5	11731	418
		1957	8	12866	3.7	463	8	13819	473	٥	13286	455
		1958	2	14140	3.6	509	ĭ	14440	475	i	15478	520
022	GUERNSEY	1947	2	5980	5.3	312						
		1948	1	7410	5.3	396						
		1949	1	8280	5.6	460						
		1950	1	8500	5.3	450						
	HOLSTEIN	1948	1	7900	3.6	287	1					
		1949	1	8730	3.4	300		10310	339			
		1950	1	8970	3.2	285	1	9960				
		1951 1952	i	10460 14320	3.6 3.7	378 525	i	12220	338 415			
		1953	i	16040	3.7	591	i	14320	503	1	11238	389
		1954	i	14240	3.5	505	i	12660	464	i	13472	485
		1956	i	14880	3.4	502	i	12690	455	i	12491	434
		1957	i	11010	3.7	413	i	13510	464	i	12164	446
		1958	2	12565	3.5	437	2	12090	449	2	11216	414
		1959	ĩ	11870	3.5	412	ī	12130	452	1	11162	424
	ALL BREEDS	1947	2	5980	5.3	312						
		1948	2	7655	4.5	342						
		1949	2	8505	4.5	38¢						
		1950	2	8735	4.3	368	1	10310	339			
		1951	1	10460	3.6	378	1	9980	338			
		1952	1	14320	3.7	525	1	12220	415			
		1953	1	16040	3.7	591	1	14320	503	1	11238	389
		1954	1	14240	3.5	505	1	12660	464	1	13472	485
		1956	1	14880	3.4	502	!	12690	455	1	12491	434
		1957	1	11010	3.7	413	1	13510	464	1	12164	446
		1958	2	12565	3.5	437	2	12090	449	2	11216	414
		1959	1	11870	3.5	412	1	12130	452	1	11162	424
075	HOLSTEIN	1951	1	12840	3.9	499						
		1952	6	14612	4.1	593						
		1953	9	13112	4.2	553						
		1954	11	14952	4.0	592						
		1955	4	15685	3.9	605						
		1956	4	15255	3.9	595						. 30
		1957	11	13144	3.8	496	9	11764	460	9	12456	470
		1958 1959	61	12756 12915	3-8	484	56	12996	479	51	12228	470
		1960	56 17	12195	3.8 3.8	486 468	55 14	12614 12524	466 480	44 11	12876 13756	483 523
	JERSEY	1952	2	6695	5.2	344						
		1953	10	9697	5.7	554	5	8018	413	3	6889	322
		1954	11	9399	5.3	497	4	8053	425	3	7652	378
		1955	27	8606	5.5	472	7	7249	381	7	7669	403
		1956	30	8605	5.3	458	9	8228	427	y	8353	440
		1957	14	9124	5.2	475	2	7375	405	2	9407	507
		1958	7	8214	5.2	432	4	8293	412	6	8526	433
		1959	12	8082	5.3	428	12	9135	4 64	4	9246	443
	ALL BREEDS	1951	1	12840	3.9	499						
		1952		12633	4.4	531		0016				700
		1953	19	11315	5.0	554	5	8018	413	3	6889	322
		1954	22	12175	4.6	544	4 7	8053	425	3	7652	378
		1955	31	9520	5.3	489	7	7249	381	1	7669	403
		1956 1957	34 25	9388	5.2	474	9	8228	427	9	8353	440
		1958	68	10892 12289	4.6	484 478	11	10966	4 50	11	11902	477
		1959	68	12269	4.0	476	60 67	12682 11991	475 465	57 48	11838 12573	466
		1960	17	12195	3.8	468	14	12524	480	11	13756	479 523
		. , 00		12 17 3	3.0	400	14	12324	400	, ,	13130	323

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STU0	BREE0	FRESHENING	RECORDS	MILK	TEST	FAT	305-DAY CONT RECORDS	MILK	FAT	YEARLY F	MILK	FAT
000	8KOWN SWISS	YEAR 1949	NO.	9520	9CT.	LB.	NO.	LB.	L8.	NO.	LB.	LB.
	ALL 8REEOS	1950 1949	1	9520	3.7	431 341						
		1950	1	11620	3.7	431						
001	AYRSHIRE	1959 1960	1 2	7650 8195	4.2 3.6	324 306	1	7250 10100	264 346	1 2	7303 7957	257 284
	GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 2 3 6 10 3 5 6 5 2	5230 6170 6647 7897 7327 8340 8412 8095 7496 8235 9590	5.1 5.8 5.2 5.1 4.8 4.6 4.9 5.1 5.4	266 351 339 395 342 397 384 393 385 441 463	1 3 6 3 5 6	8133	502 483 393 414 409 456 426	5 2 4 6	7386 8726 8279 8606 8619	360 417 404 411 394
	HOLSTEIN	1947 1948 1949 1950 1951 1953 1954 1955 1956 1957 1958 1959	23 23 29 30 32 58 84 115 139 160 151 123 57	13655 13926 13612 14030 12865 12174 12521 12989 13344 14085 13186 13865 13832 12870	3.5 3.5 3.5 3.5 3.6 3.5 3.5 3.5 3.5 3.4 3.5 3.4	472 481 478 492 459 439 452 459 465 474 473 433	2 3 5 30 65 86 124 140 139 88 51	15880 11210 14050 14230 14814 12088 12376 12468 13350 13928 13580 13705 13940 13211	587 451 475 517 549 426 439 440 465 492 478 478 492 475	130 129 92 44	11389 12327 12021 12703 13456 13339 13332 12792	408 449 432 443 473 484 476 445
	8ROWN SWISS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 7 6 9 6 10 4 7 11 22 23 14 21 13	9200 9184 9457 10262 11035 11523 11205 9879 10371 10337 10639 10740 9651 9960	4.1 4.3 4.1 4.2 4.1 4.0 4.1 4.0 3.8 4.1	372 403 399 420 461 464 452 400 412 415 438 423 374 413	2 2 5 4 6 12 22 22 8 16	9980 10980	361 422 446 438 432 463 477 502 441 440 314	12 14 11 16 9 3	10832 9812 9789 10726 9913 10696 9468	422 401 394 446 403 430 394
	M. SHORTHORN	1950 1951 1953 1954 1955 1956 1957 1958	2 2 4 2 5 7 3 2 2	8260 7485 5623 7485 7020 10150 9227 9715 10115	4.1 4.2 4.0 4.1 4.0 3.8 3.7 3.7	338 322 226 308 280 384 336 354 397	1 2 4 7 3	7890 7805 7658 8943 8723	328 310 290 338 337	1 2 4 7 3	7554 7096 6573 6836 7604	278 283 262 255 288 342
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	24 30 36 43 43 74 102 127 161 196 173 148 74	13470 12819 12687 12607 11926 11739 11690 12621 12773 13322 12746 13289 12856 11371	3.5 3.7 3.7 3.8 3.7 3.7 3.6 3.5 3.6 3.5 3.6	467 463 459 463 445 431 421 4246 447 478 458 465 461	1 2 2 5 8 38 76 99 145 175 154	15880 11210 14050 11916 13084 11802 11894 12140 12876 13290 13278 13297 13143 11510	587 451 4754 512 433 434 436 458 475 473 474	67 54 114 157 147 108 56	11000 12000 11466 12025 13001 12831 12639 10828	404 442 422 429 465 472 460 398
002	AYRSHIRE	1949 1950 1951 1952 1953 1954 1955	1 3 3 6 17 28 30 25	8350 8887 9337 8518 7729 7577 8153	4 - 4 4 - 0 4 - 1 4 - 0 4 - 2 4 - 1 4 - 1	369 356 387 338 322 308 335	2 4 14 27 27	10550 10063 7911 8380 8448	431 403 311 342 343	11 19 24	8279 7442 8192	321 265 330

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING URGANIZATIONS--GROUPED BY STUD, 8Y BREED, BY YEAR OF FRESHENING

STUD 8REEO	FRESHENING YEAR 1957	RECOROS NO. 26	MILK L8. 9048	TEST PCT. 4.1	FAT LB. 372	305-DAY CONT RECOROS NO. 24	EMPORARY MILK LB. 9487	AV. FAT L8. 375	YEARLY I RECORDS NO. 22	HERD AV MILK LB. 9117	ERAGE FAT LB. 363
	1958 1959 1960	34 30 6	9599 8172 11052	4.1 3.9 4.1	390 317 457	25 25 6	10174 9614 10475	400 378 418	15 29 4	8449 8348 9810	377 367 390
GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	16 24 38 67 91 134 209 255 341 285 249 153 42 8	8679 8345 8179 7612 7699 7791 7975 7941 8057 8017 8134 8490 8395 9335	4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	387 391 388 361 372 373 382 385 385 384 387 404 392 434	2 4 8 16 38 76 176 235 318 265 234 102 38 8	13655 8983 8208 9101 8650 8372 8353 8600 8823 9074 9422 9086 9130	533 413 386 421 421 418 392 384 398 411 415 427	111 146 264 223 208 34 8	8269 8409 8239 8616 8793 8814 9223 8677	388 386 383 402 413 414 427 402
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	11 30 86 170 229 338 520 678 849 913 816 915 906	13128 12661 12197 11773 11863 12064 12147 12147 12193 12254 12720 12550 13197 13285 12875	3.6 3.5 3.6 3.7 3.6 3.6 3.6 3.6 3.7 3.7 3.7	477 439 439 430 437 438 439 442 462 462 485 467	5 17 44 118 225 417 602 776 856 753 721 780 133	10482 12234 12332 11864 11950 11992 12173 12251 12732 12776 13188 12920 12861	357 438 445 437 430 431 436 442 462 468 484 472	299 292 608 707 652 663 828 107	11448 11736 12012 12179 12441 12224 11581 13216	415 423 434 441 453 476 478 482
JERSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 13 35 48 69 90 93 71 47 39 35 31	5110 7126 7004 6820 7316 7001 6861 7367 7101 7027 7929 8495 8431	5.4 5.2 5.3 5.4 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	277 370 372 364 389 372 363 383 372 373 401 445 424	4 7 19 43 46 42 35 28 19 23 5	8130 7456 7803 7238 7257 7805 7899 7273 8234 8435 8940	399 402 420 387 378 395 407 382 430 440 459	21 24 41 33 17 15 18	7728 7344 7598 7431 7313 7876 7266 9723	387 379 382 381 382 418 402 443
8RUWN SWISS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 24 35 52 74 121 116 147 136 182 328 373 105	12000 10862 10785 9608 10066 10115 10404 10600 11141 10606 10935 11094 10512	4.0 4.0 4.1 4.1 4.2 4.1 4.1 4.1 4.1 4.1	476 428 437 394 411 423 427 437 458 431 449 454	3 11 21 41 71 63 95 97 106 155 280	11190 11845 10145 10560 10087 10090 10426 10805 10583 10703 10955 10428	447 491 421 429 414 412 420 437 426 432 444	67 44 73 86 85 136 282 81	9400 9625 9706 10446 10433 9160 9542	387 396 397 421 420 429 431 434
M. SHORTHORN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 3 12 12 14 9 8 9 12 11	8640 9840 7609 7690 7179 8058 8094 8321 7163 7951 8445	3.9 3.6 3.8 3.6 3.6 4.3 3.8 3.9 3.9	333 354 293 289 260 289 339 314 281 308 321	1 4 3 8 6 4 6 10 8	8640 8633 8343 8809 7703 7403 7482 7346 8346	328 335 314 333 299 280 289 288 313 317	9 0 3 6 10 6 8	7334 7301 7612 7109 7278 7697 8815	278 282 295 278 283 293 341
ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955	27 59 163 313 435 633 971 1179 1446	10492 10732 10614 10192 10031 10292 10370 10536 10748	4.2 4.1 4.1 4.1 4.2 4.1 4.1 4.0	424 419 419 408 406 411 413 415 422	2 9 28 76 190 368 729 979 1262	13655 9816 10971 11311 10794 10850 10539 10759 10949	533 382 424 443 429 426 414 416 425	518 531 1013	10212 10244 10581	400 402 413

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING	KECORDS	MILK	TEST	FAT	305-DAY C		EMPORARY MILK		YEAKLY I			
3100	GREED	YEAR 1957 1958	NO. 1324 1476	LB. 11172 11959	PCT. 4.0 3.9	L8. 437 463	RECU NO 11		L8. 11576 12239	FAT L8. 448 466	RECORUS ND. 994 935	MILK LB. 11293 11255	FAT L8. 437 459	
		1959 1960	1395 267	12291 11682	3.9 3.9	468 450	11	58 42	12112 11693	459 449	1199 203	10873 11905	461 457	
003	AYRSHIRE	1953 1954	2	9185 9085	4.2	382 379		1	9360 9250	389 361	1	9875	399	
		1955	11	9297	4.1	383		7	10371	408	3	8825	358	
		1956 1957	17 9	10030 9774	4.2	425 399		12 7	9613 9807	388 401	7 3	9681 10148	386 413	
		1958	5	9516	4.0	378		4	11338	449	1	9363	392	
		195.9 1960	8 1	10056 12840	3.9 3.6	396 468		7	10543 13210	423 575	7	9072	410	
	GUERNSEY	1947 1948	2 5	14985 10392	4.8 4.9	715 498								
		1949	9	7114	5.2	365								
		1950 1951	15 22	7301 8139	4.7 5.0	343 403		2 7	6935 8897	350 431				
		1952	24	9889	5.0	439		16	8953	419				
		1953 1954	54 53	8328 8281	4.8 4.8	402 393		44 44	8828 9610	412 423	40 21	8415 9245	399 4 17	
		1955	55	8829	4.8	420		53	10064	453	43	8796	407	
		1956	57	8527	4.7	401		53	9038	407	50	9171	411	
		1957 1958	38 21	8455 7990	4.8 4.8	404 383		36 14	8879 8514	4 12 398	34 13	9022 9140	41 7 420	
		1959	8	10134	4.7	472		8	9704	429	7	10083	459	
	HOLSTEIN	1947	2	12325	3-4	403			05.10	100				
		1948 1949	13 33	12269 12493	3.6 3.5	442 437		<u>1</u> 8	8510 12973	290 432				
		1950	46	12281	3-6	442		13	12706	450				
		1951 1952	68 123	11738 12449	3.6 3.6	421 442		40 81	11584 12514	420 447				
		1953	201	12015	3.6	427	1	72	11642	416	137	11450	408	
		1954 1955	230 254	11906 12436	3.5 3.5	420 438		12 44	12106 12176	431 436	121 176	12214 11575	431 418	
		1956	233	12674	3.5	447		13	12529	453	177	12011	435	
		1957	165	12771	3.6	452	1	55	12523	453	136	12456	456	
		1958 1959	120 75	13094 13140	3.5 3.4	453 451		96 68	12847 12663	463 459	79 65	12203 11688	449 470	
		1960	12	12570	3.5	441		12	12812	467	12	12908	466	
	JERSEY	1950 1951	8 4	7290 8678	5.5 5.5	397 474		2	11095 10033	591 490				
		1952	8	8001	5.4	432		4	8785	452				
		1953 1954	8 13	7758	5.6	428		8	8739	461	4	9320	468	
		1955	8	8525 8550	5.3	452 456		6 4	8063 8540	424 445	4 5	9148 7488	458 392	
		1956	6	7508	5.3	403		3	6887	352	1	7477	402	
		1957 1958	10 2	8350 7275	5.2 5.3	434 386		8 2	8443 7390	433 316	3	7975	411	
8	ROWN SWISS	1949 1950	5 9	12008 10687	4.1 4.3	485 449		1	12170 13270	495 573				
		1951	14	8944	4.4	376		4	9488	396				
		1952 1953	19	9097	4.0	364		9 27	9277	373 417	20	0661	700	
		1954	33 32	10024 9844	4.1 4.2	409 406		30	10263 10491	432	20	9554 9199	392 382	
		1955	31	11319	4.0	453		26	10354	424	16	9901	413	
		1956 1957	30 24	11010	4.3	445		17	10696	441	24 17	10491	435 427	
		1958	31	10694	4.2	448		16	11376	453	13	9526	421	
		1959 1960	35 7	9667 12836	4.1 4.2	397 530		28 6	9889 11760	416 495	24 3	8938 11 73 6	407 495	
H	. SHORTHORN	1950	5	9330	4.0	369								
		1951 1952	6	7887 9035	3.9	306 347		3	8480	338				
		1953	10	9220	3.8	351		9	8013	309	b	6419	244	
		1954	11	8423	3.8	322		11	8950	353	4	6270	236	
		1955 1956	4 11	8105 7 280	3.7 3.8	296 277		2 10	7970 9554	280 361	∠ 4	ช611 6968	330 263	
		1957	3	7800	4.0	309		1	8410	320	1	7837	310	
		1958 1959	2 2	10835 10095	3.7 3.6	401 364		2	10255 9415	387 349	2	7848 8726	305 336	
	ALL BREEDS	1947 1948	4 18	13655 11748	4.1 4.0	559 458		1	8510	290				
		1949	47	11411	3.9	428		9	12883	439				
		1950 1951	83 114	10549 10390	4.0	416 408		18 54	11917 10994	461 423				
		1952	180	11311	3.9	430		113	11513	435				
		1953	308	10935		418	2	261	10802	413	210	10452	400	
		1954	347											

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TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUC, BY BRELD, BY YEAR OF FRESHENING

STUO	8REE0	FRESHENING YEAR 1955 1956		MILK LB. 11566 11445	TLST PCT. 3.8 3.9	FAT LB. 434 432	305-LAY CONTI RECOROS NO. 336 318	EMPORARY MILK LB. 11596 11535	AV. FAT LB. 436 438	YEARLY H RECORDS NO. 245 263	HERO AV. MILK LB. 10837	ERAGE FAT L8. 414 427
		1957 1958 1959 1960	249 181 128	11597 11902 11762 12677	3.9 3.8 3.7 3.7	442 440 433 474	224 134 113 19	11537 12053 11577 12501	442 451 442 482	194 108 108	11531 11405 10748 12673	444 439 449 472
004	GUERNSEY	1955	1	12240	4.0	493	1	7420	352			
004	HOLSTEIN	1948 1949 1950 1951 1952	5 6 5 4	14220 13340 12667 10952 11845	3.4 3.4 3.6 3.6 3.5	482 455 447 391 411	1	15880	507		17100	
		1953 1954		10097 16850	3.5 3.5	341 594	1	16560 18070	586 647	1	17102	590
	ALL BREEOS	1948 1949 1950 1951 1952	5 6 5 4	14220 13340 12667 10952 11845	3.4 3.6 3.6 3.5	482 455 447 391 411	1	15880	507			
		1953 1954 1955	1	10097 16850 12240	3.5 3.5 4.0	341 594 493	1 1 1	16560 18070 7420	586 647 352	1	17102	590
005	GUERNSEY	1947 1948 1949 1950 1951 1952	7 5 2 1 1	6470 6618 6690 7100 5920 4560	5.3 5.2 5.1 5.3 5.0 5.3	337 336 337 376 294 241						
	HOLSTEIN	1947 1948 1949 1950 1951 1952	2 3 3 2 3 1	12135 10700 11953 12800 10100 12920 12430	3.7 3.7 3.5 3.7 3.7 4.0 3.6	453 394 416 475 381 522 449	1 2 1	14440 13305 13690 12110	533 462 484 415	1	10737	392
	JERSEY	1955 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 31 34 27 28 22 20 17 14 8 5	6479 6321 6663 6820 6617 6546 6022 6611 5789 7040 7514 5488	5.6 5.8 5.4 5.5 5.5 5.6 5.3 5.2 5.2 5.1	362 366 373 372 364 357 333 348 304 360 377 267	1 1 1 1	8730 8260 9890 9800 10910 9950 9970	419 457 528 513 570 499 504	1	14039	494 543
E	BROWN SWISS	1948 1949 1950 1951 1952 1954	1 1 1 1	11580 10730 14310 13290 14950 10770 11230	4.1 3.9 3.7 3.6 3.4 5.0 3.7	473 415 532 479 513 535 415						
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	20 40 40 31 33 25 20 19 16 8 5	7042 6818 7163 7456 7115 7058 6022 7136 6563 7040 7514 5488	5.3 5.5 5.4 5.3 5.3 5.6 5.2 5.1 5.2 5.1	362 367 375 384 367 366 333 363 363 322 360 377 267	1 1 2 3 2 1 1 2	8730 8260 12165 12137 12300 9950 11040	419 457 531 479 527 499 460	1 1	10301 10737 14039	543 392 494
006	GUERNSEY	1947 1948 1949 1950 1951 1952 1953	5 3 2 3 3 2 1 2	8044 7047 8540 7883 7000 8505 8590 8290	4.7 4.6 5.0 5.0 4.7 4.0	373 334 388 391 346 396 344 364	2 2 2	7750 7840 7640	368 373 345	2	7445	352
		1955	ī	9200	4.7	428	ī	7500	381	ī	7565	370

STUD BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONTI RECORDS NO.		AV. FAT LB.	YEARLY H RECURDS NO.	ERD AVE	FAT L8.
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	41 27 23 13 12 9 5 3 3 2	14248 12419 13277 12710 11586 11832 11036 13493 12600 12025 15060	3.4 3.5 3.5 3.6 3.4 3.6 3.6 3.5 3.6 3.5	484 436 466 445 413 404 389 478 456 396 523	1 3 1 5 6 4 3 2 1	16650 13510 14040 11330 12405 12180 12637 13535 14530 16480	598 514 475 393 457 452 473 513 503 616	2 1 2 1	8426 12709 12862 13647	374 467 461 507
ALL 8REEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	46 30 25 16 15 11 6 5 4 2	13574 11881 12898 11805 10669 11227 10628 11412 11750 12025 15060	3.5 3.6 3.6 3.8 3.7 3.6 3.9 3.9 3.3	472 426 460 435 399 403 381 432 449 396 523	1 3 1 7 8 4 5 3 1	16650 13510 14040 10307 11264 12180 10638 11523 14530 16480	598 514 475 386 436 452 422 469 503 616	2 2 2 2 1	8426 7445 10137 12862 13647	374 352 419 461 507
007 HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957	1 3 6 7 8 6 3 3 1	15030 11187 13165 14014 12815 12410 10750 16077 11680 19260	3.2 3.7 3.5 3.5 3.4 3.3 3.0 3.6 3.3	480 418 464 486 440 414 322 570 386 647	1 3 5 7 7 6 3 3 1	12640 9903 13322 13497 11951 12393 11980 14113 13840 14080	457 393 472 481 419 424 565 501 509	(6 3 1 1	12865 12095 12208 13505 14780 12241	444 429 408 453 535 449
8ROWN SWISS	1950 1951 1952 1953 1954 1955 1956	1 4 6 4 2 1	12580 8168 8695 9640 9045 9490 11560 15220	3.8 4.2 3.8 3.7 3.7 3.6	480 353 360 368 336 349 419 514	1 1 3 4 4 2 1	13970 8430 10027 9708 10415 11910 12070 10010	550 345 414 399 417 481 479 391	3 4 2 1	10148 9494 9560 13069 9690	4 19 387 395 526 380
ALL BREEDS	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 4 10 13 12 10 5 4 1 1	15030 11535 11166 11559 11757 11064 10246 14948 11680 19260 15220	3.2 3.8 3.8 3.6 3.5 3.3 3.6 3.3	480 433 419 428 416 383 333 532 386 647 514	1 4 6 10 11 10 5 4 1	12640 10920 12507 12456 11135 11602 11952 13603 13840 14080 10010	457 433 451 461 412 421 411 496 501 509 391	16 10 5 2 1 1	12050 11055 11149 13287 14780 12241 9690	436 412 403 490 535 449 380
008 AYRSHIRE	1957 1959 1960	2 6 2	5970 10097 9515	4.5 4.2 4.2	262 419 399	2 6 2	9825 10088 9980	403 414 390	2 4 1	7096 9807 6976	303 399 303
GUEKNSEY	1951 1952 1954 1955 1956 1957 1958 1959	1 8 7 24 33 24 15	5780 8170 8778 9103 8717 7961 7755 9020 9135	5.6 4.8 4.7 4.9 4.7 5.0 4.6 4.3	322 391 411 441 421 375 394 411 387	8 7 20 27 12 11 2	8436 8539 9518 8903 8978 9088 8690	422 404 435 412 418 426 394	6 6 18 26 11 10	9067 8046 9034 8296 8701 9067 9995	432 382 411 396 420 427 448
HOLSTEIN	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 3 6 28 79 157 266 269 339 477 78	10300 10203 13707 13248 12723 12589 12940 12246 12771 13061 11897	3.8 3.8 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6	389 385 479 468 458 451 466 445 462 472 429	1 15 61 146 244 248 246 468 72	12190 9990 11877 11964 12472 13013 12566 12964 12696 12307	413 337 438 434 448 469 456 468 457 447	12 25 114 203 192 230 396 61	11512 12281 11597 12303 12425 11212 10938 12600	416 434 425 443 451 457 450
JERSEY	1958 1959	5 3	7784 7977	5.4 5.2	422 417	3 3	7423 7537	401 415	2	7810	434

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD 8REED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT L8.	305-DAY CONT RECORDS NO.		AV. FAT LB.	YEARLY S RECURUS NC.	HERD AVI MILK L8.	ERAGE FAT LB.
BROWN SWISS	1955 1956 1957 1958 1959 1960	1 7 14 29 41 16	12430 11119 9948 10895 9793 10543	4.1 4.3 4.4 4.1 4.2 4.2	512 479 432 445 409 442	1 6 8 16 34 15	11110 10143 9543 10342 10356 9718	481 430 407 414 419 392	1 6 9 16 28 9	10028 9227 9241 9769 9780 9877	441 384 388 404 395 406
M. SHORTHORN	1953 1954 1955 1956 1957 1958 1959	1 1 6 7 4 4	6850 9330 8180 8055 7733 7390 7920 8170	4.1 3.7 4.0 3.8 3.9 3.6 3.9	282 348 330 306 304 261 308 281	1 1 6 5 2 3	6790 7980 3840 9782 9850 14370 6883 12640	240 302 160 368 363 526 260 516	1 1 4 3 3	7903 8058 8161 7764	213 289 309 317 299
ALL ØREEDS	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 4 7 29 88 166 303 325 401 546 99	10300 9098 12916 13027 12325 12415 12467 11576 12219 12606 11536	3.8 4.3 3.7 3.6 3.7 3.6 3.7 3.8 3.8 3.7	389 369 466 462 452 450 459 434 454 464 428	1 16 70 155 276 290 279 465	9990 11559 11504 12230 12627 12076 12592 12335 11759	413 337 426 431 444 464 462 451 437	13 31 121 228 233 260 443 72	11072 11659 11408 11945 11720 10983 10777 12145	400 433 423 439 439 450 445
009 GUERNSEY	1948 1949 1950 1951 1953	3 4 2 1	5977 7143 7355 5900 4660	5.3 5.8 5.3 5.3	313 409 384 311 234	i	7220	319			
HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 1 8 6 4 5 5 4 4 15 2 3 1	9870 11030 14116 11767 13845 11460 9664 13318 15048 12395 13270 14853 4890	3.9 3.8 3.7 3.8 3.9 3.4 3.9 3.4 3.7	386 373 496 433 502 430 371 454 566 416 486 521 201	3 5 3 5 5 4 4 14 1 1 3	14480 11468 13883 12994 12104 13425 13598 12939 15170 13730 12060	513 423 517 468 427 477 468 452 578 488 434	5 2 4 3 3 1 3	13122 13222 12066 14177 12451 14944 14043	475 476 432 495 454 556 506
8RO₩N SWISS	1948 1949 1950 1951 1952 1953 1954 1955	2 3 3 2 1 2 1	8955 10940 11277 8565 6040 9190 10880 12360 12570	4.3 4.1 4.0 3.7 3.8 4.2 4.3	387 469 464 342 225 349 455 535	1 1 1 2 1 2 1	11200 13160 11490 8850 7870 9230 9730 12180	448 505 484 362 328 383 404 542 467	2 1 1	9031 8851 9843 12873	377 349 419 540
ALL ØREEDS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	8 8 13 9 5 8 6 5 5 5 15 2 3	8181 9053 12421 10403 12284 10043 9867 13126 14552 12395 13270 14853 4890	4.5 4.9 3.7 3.7 3.9 4.0 3.7 3.9 4.0 3.5 4.1	359 427 472 399 446 385 385 470 561 416 486 521	1 1 4 7 4 8 6 5 5 1 1 1 3	11200 13160 13733 10720 12380 11331 11708 13176 13114 12939 15170 13730 12060	448 505 506 406 470 428 423 490 468 452 578 488 434	7 3 5 4 3 1	11953 11765 11622 13851 12451 14944 14043	447 434 429 506 454 556 506
010 HOLSTEIN	1950 1952 1953 1954	1 3 2 3	13600 12327 12775 11967	3.5 3.6 3.2 3.6	480 446 414 426	1 3 2 3	15890 13853 10115 13107	561 485 354 470	1 2	12720 12557	459 413
ALL BREEDS	1950 1952 1953 1954	1 3 2 3	13600 12327 12775 11967	3.5 3.6 3.2 3.6	480 446 414 426	1 3 2 3	15890 13853 10115 13107	561 485 354 470	1 2	12720 12557	459 413

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD 8REEO	FRESHENING YEAR	RECOROS NO.	MILK	TEST PCT.	FAT L8.	305-DAY CONTI RECORDS NO.	MPORARY MILK L8.	AV. FAT L8.	YEARLY F RECOROS NO.	MILK LB.	ERAGE FAT L8.
001 GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2	6455 6620 8162 7599 8332 7928 8302 8964 10420 11345 11990	4.8 5.0 5.0 5.0 4.9 4.9 4.7 4.7 4.7	310 333 402 376 404 390 393 402 489 514 565	1 4 10 17 21 20 6 6	5360 7850 10292 8925 9016 8720 8808 8967 10850 8460	247 401 463 399 421 418 436 355 580 403	10 14 23 21 9 3	8451 8569 8417 8232 7878 7812 9854	400 413 399 402 373 368 505
HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	8 15 28 45 64 74 86 69 65	11847 13893 11369 10472 11629 12131 12029 12390 11527 12251 12287 12062	3.6 3.6 3.7 3.7 3.7 3.7 3.6 3.6 3.6 3.5	421 487 399 383 432 441 440 440 410 431 445	1 2 3 7 30 53 60 74 62 60 101	11340 14200 12640 12397 12540 12259 12112 11949 11670 12210 12517 12735	393 533 467 475 478 456 442 433 424 451 458 479	18 47 61 73 49 41 105	11322 12078 12105 12524 11924 11470 11802 11295	436 457 449 461 436 414 449 415
JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 5 6 14 18 27 52 78 68 48 27 23 14	7980 7690 8325 7554 8168 7451 7332 7577 7202 7320 7446 7596 7663 9523	4.6 5.1 4.8 5.3 5.2 5.4 5.3 5.2 5.2 5.2 5.2 5.2	369 389 397 400 427 385 392 396 373 374 378 378 382 420	1 7 22 43 42 24 11 9	6800 7629 7575 7734 7323 8083 8126 8011 7643	432 413 386 391 370 405 422 409 395	13 26 40 24 10 9	7326 7287 7584 7508 7991 7571 7792	384 373 390 378 399 382 381
8ROWN SWISS	1958 1959 1960	1 8 3	12080 10068 9730	4.1 4.1 3.9	496 415 377	1 6 2	11040 1065& 10540	428 424 388	1 7 2	8785 9047 10279	358 413 403
ALL 8REEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	107 96 139	7980 7690 10086 9335 9228 8831 9043 9416 9340 10205 10234 11001 11680 11538	4.6 5.1 4.2 4.7 4.5 4.5 4.7 4.6 4.5 4.1 4.0 3.8 3.8	369 389 409 413 404 387 405 414 404 416 426 438 438	1 3 4 18 62 113 123 118 79 76 114	11340 11733 10820 9532 10416 10036 9948 10615 10959 11441 12148 12341	393 499 412 434 443 423 414 425 425 438 454	41 87 124 118 68 54 121	9354 10082 9963 10740 10810 10567 11362 10956	411 425 421 434 422 405 443 411
002 GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1957 1959	5 20 54 84 100 115 130 103 79 53 22	7358 8022 8007 8040 8219 8225 7669 8280 8153 8379 8595 9323	5.2 5.1 5.0 4.9 4.9 5.0 5.0 4.9 4.8 5.0	385 406 397 394 402 400 380 411 406 428 464	2 10 37 61 88 115 91 63 37 21	9490 8281 8878 8800 8849 8416 8787 9615 8634 9010	448 384 416 420 410 398 414 441 454 419	55 87 113 81 58 37 18	8490 8981 8685 8697 9012 8271 8621 9745	412 424 409 412 432 417 414
HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	7 40 94 133 203 232	9660 10790 10591 12202 11524 11630 11904 11787 11879 12035 11706	3.7 3.5 3.6 3.8 3.6 3.6 3.6 3.6 3.6 3.7	356 385 383 458 411 418 427 421 425 437 431	3 23 46 82 169 212 264 281 270	11673 12372 12099 11839 11932 11626 11778 11842 11824	415 450 450 432 435 430 434 443	134 181 212 245 259	11541 11351 11521 11704 11524	421 424 429 438 433

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR 1959 1960	NO. 186 1:	MILK LB. 2367	TEST PCT. 3.7	FAT Le. 455	3G5-DAY CONT RECORDS NO. 170 45	EMPORARY MILK LB. 12621 12338	FAT LB. 469	YEAKLY RECORUS NO. 157 23	HERD AV MILK LB. 12028 12843	FAT L8. 471 478
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 7 32 65 109 165 136 163 144 96 71 90	2639 7200 6871 7842 7859 7813 7495 7341 7591 7753 7886 7733 7935	5.4 5.4 5.3 5.3 5.3 5.2 5.2 5.2 5.2 5.2	468 385 371 421 407 391 367 364 410 367 398 417 410	1 8 23 43 50 67 80 59 44 48 86	6280 7908 8210 7774 7325 7351 8345 7739 8181 7832 8122	433 424 430 414 419 390 415 434 430 416 419	35 57 77 56 46 44 84	7736 7721 7800 7893 7677 7797 8263 8227	397 406 407 411 411 405 443
,	BROWN SWISS	1952 1956 1957 1958 1959 1960	3 6 5 16 4 1 4 13	1490 8157 0526 1953 2310 1430	4.0 4.6 4.0 4.1 4.2 4.4	461 370 422 487 509 502	2 3	12730 10236	560 443	ا ع	12034 11478	464 494
T	4. SHORTHORN	1953 1954 1955 1956 1957 1958 1959	6 6 11 1 14 8	7333 6617 9358 8006 8619 8764 9735	4.1 4.0 4.3 4.1 4.1 4.5 3.9	299 264 404 331 359 392 382	2 5 6 6 11 4 12	9045 8782 7673 9213 9776 9930 8918	348 343 299 379 395 400 364	3 5 4 2 8 4 8	8448 7656 7483 7156 7904 6867 6758	342 294 296 289 319 283 340
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	12 44 125 1257 1257 1383 1442 1516 1566 1766 1766 1766 1766 1766 1766	9168 8504 8225 9275 9211 9061 9635 9636 9836 9836 0442 0442 0452 0204	4.0 4.6 5.1 4.8 4.6 4.4 4.4 4.3 4.2 4.2 4.2	361 377 411 427 406 401 408 406 409 425 414 431 437	4 33 79 162 282 372 465 437 388 256 293	10825 11115 10483 10084 10523 10162 10232 10698 10871 11135 10776 10183	420 444 436 424 428 417 420 435 438 452 446 440	22 / 33 0 40 6 38 4 37 1 20 9 26 8 4 2	10174 10043 9986 10490 10576 10061 10462 11023	414 419 418 428 427 438 454
003	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955	4 8 8 5 6 2 1	9015 7525 6763 8091 8150 7428 8060 6230 6700 9180	4.1 5.1 5.0 5.0 5.1 4.8 4.5 4.6 5.1	363 378 348 398 409 381 385 278 304 469	1 2 1	7620 10225 9030	410 419 460	1 1 1	7794 8371 8284	390 405 370
	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	15 1: 15 1: 16 1 22 1 27 1: 28 30 27 1: 12 1: 11 1: 12 1:	2880 2196 2888 1928 1385 0267 9970 9882 9954 8959 1468 3043 1230	3.8 3.7 3.7 3.6 3.6 3.5 3.5 3.6 3.5 3.7 3.8	483 445 473 442 405 368 350 348 360 314 417 493 428	2 2 2 8 20 21 25 22 9 8 11	11570 10560 11865 11303 10210 10120 10274 10084 9258 12216 11856 12640	453 427 441 410 369 355 372 371 332 476 448 443	16 21 25 23 8 8	8971 9325 10713 10883 9696 10085 11562	329 324 385 399 348 372 430
	JERSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	11 9 10 10 14 15 11 8	4860 5916 6096 6297 7614 7610 7792 7339 6979 6416 6040	5.6 5.5 5.4 5.3 5.1 5.2 5.0 4.9 5.2	270 323 326 332 405 392 406 363 342 333 305	1 5 7 14 14 11 8 6 5	6600 5810 7324 6673 7168 7892 8375 7820 6796	318 264 328 306 323 399 416 395 362	14 14 11 8 0 5	7499 6976 7652 8186 6965 7129	355 351 380 407 356 365

STUD	8REED	FRESHENING YEAR 1960	NO.	L8. P	EST PCT. 5.1	FAT LB. 521	305-DAY CONTE RECORDS NO. 1	MPORARY MILK L8. 7140	AV. FAT L8. 373	YEARLY H RECORDS NO.		FAT LB. 379
	ALL 8REEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	8 7 34 8 32 9 31 9 38 9 43 9 44 9 43 9 45 9 17 7 17 9	1015 1195 1886 1778 1502 1768 1299 1142 1084 1274 1869 1955 1671 10233	4.1 5.1 4.6 4.5 4.4 4.3 4.1 4.0 3.9 4.2 4.2 4.0 4.7	363 351 383 413 401 401 377 368 350 356 322 377 456 473	3 2 7 15 35 35 38 30 17 13 14	9913 10560 7540 9446 8721 8939 9582 9628 8561 10132 10803 9603	408 427 314 371 345 342 382 383 362 432 430 425	35 36 57 31 16 15 13	8311 8385 9737 10187 8330 8948 10559 7216	342 337 383 401 352 369 417 379
004	G UE RNS E Y	1950 1951 1952 1953 1954 1955 1956 1957	3 8 6 8 4 7 2 8 4 8 2 7 2 8	3900 3007 3063 7215 3115 3180 7520 3350	5.0 4.9 4.9 4.6 5.0 4.7 4.9	341 388 393 351 374 4Co 349 404 244	1 1 1 3 3 1 2	7550 6220 9060 7320 7637 8150 7365 8170	347 302 430 364 376 398 351 371	1 1 3 1 2	6344 8927 9876 8469 7881 6246	304 424 463 393 388 287
	HOLSTEIN	1954 1955 1956	1 13	1000 3750 3080	3.6 3.5 3.2	392 481 424	1	11600	393	1	ა676 9897	317 350
	JERSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957	12 6 16 6 39 7 43 7 24 8 11 8 10 7	7018 5978 5893 7560 7382 8026 8600 7453 7563	5.5 5.5 5.1 5.1 5.2 5.2 5.1 5.2 4.9	391 384 350 388 383 417 439 383 371 404	1- 4 12 13 7 4 3	7500 8530 8075 7712 8716 8793 8860	391 427 412 380 415 432 389 602	7 10 7 4 2	7431 6843 8636 7707 9941 8502	390 379 412 378 446 445
	ALL BREEDS	1949 1950 1951 1952 1953 1954 1955 1956 1957	16 6 19 7 45 7 47 7 28 8 16 8 13 7	7018 5959 7069 7627 7368 3245 3817 7896 7760	5.5 5.4 5.1 5.1 5.0 5.0 5.0 4.9 4.7	391 373 356 389 381 412 433 381 380 364	2 5 13 14 10 6 5	7525 8068 8151 7684 8372 9153 8262 9720	369 402 413 379 403 420 374 487	6 11 11 6 4	7295 7033 8978 8199 8911 7374	379 363 417 376 417 366
005	JERSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	9 8 15 7 14 7 6 7 12 6 2 6 3 7 1 12	5630 3989 7435 7299 7613 5622 5025 7240 2660 3640	5.4 5.1 5.4 5.5 5.3 5.4 5.0 4.8 5.3 4.9 6.3	356 451 402 398 398 345 306 343 672 425 656	1 1 2 3	6310 8390 7945 7670	405 456 455 415	٤	7303	346
	ALL 8REEDS	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	9 8 15 7 14 7 6 12 6 2 6 3 7 1 12	5630 3989 7435 7299 7613 5622 6025 7240 2660 3640		356 451 402 398 398 345 306 343 672 425 656	1 1 2 3	6310 8390 7945 7670	405 456 455 415	ن	7303	346
006	GUERNSEY	1948		5480	5.2	286						
006	JEKSEY	1947 1948 1949 1950 1951 1952	2 6 5 7 3 8	8080 6100 7218 8457 9300	5.3 5.0 4.9	353 321 360 409 456						

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT	EMPORARY	AV.	YEARLY H	ERD AV	ERAGE
STUD	BREED	FRESHENING	RECOROS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECORUS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NO.	LB.	LB.	NO.	LB.	LB.
		1953	4	6973	4.7	326	1	7580	366	1	7499	355
		1954	2	7570	4.8	363	i	7060	346	1	6976	351
		10.7				10.1						
	ALL BREEDS	1947		8080	4.4	353						
		194B	3	5893	5.2	309						
		1949	5	7218	5.0	36C						
		1950	3	8457	4.9	409						
		1951	3	9300	4.9	456						
		1952	4	7470	4.8	356	1	7900	376			
		1953	Ц	6973	4.7	326	ı	7580	366	1	7499	355
		1954	2	7570	4.8	363	1	7060	346	1	6976	351
800	JERSEY	1947	3	7130	5.3	379						
	ALL BREEDS	1947	3	7130	5.3	379						
009	JERSEY	1947	1	6190	5.2	320						
		1949	2	6230	5.1	316						
		1950	ĩ	2780	5.2	143						
	ALL BREEDS	1947	,	6190	6 2	320						
	ALL BREEDS				5.2							
		1949	2	6230	5.1	316						
		1950	1	2780	5.2	143						
075	JERSEY	1955	2	8650	5.4	470	2	7400	389	ì	7815	391
		1956	1	9510	5.7	545	1	9470	470			
	ALL BREEDS	1955	2	8650	5.4	470	2	7400	389	1	7815	391
		1956	ĩ	9510	5.7	545	1	9470	470			٠
		. , 50				5 , 5		, ,,,				

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIR S IN SERVICE IN ARTIFICIAL BREEDING GRGANIZATIONS---GROUPEO BY STUD, BY DREED, BY YEAR OF FRESHENING

	011007	0 0, 3,00, 5.	Directo, i									
							305-DAY CONTI	FPPORARY	Δ٧.	YEARLY H	I RE AVI	RAGE
STUD	BREEO	FRESHENING	RECOROS	MILK	TEST	FAT	RECORUS		FAT	RECURUS	MILK	FAT
3.00	DIVECO	YEAR	NO.	LB.	PCT.	LB.	NG.	LB.	L8.	NO.	L8.	LB.
						2.0		2				
001	GUERNSEY	1950	3	6917	5.1	350						
		1951	2	6250	4.8	300						
		1952	2	7420	5.3	386						
		1953	3	6547	4.4	291						
		1954	2	7030	4.5	316						
		1957	ĩ	5590	4.1	232	1	6200	296	1	7325	341
		1958	i	10710	4.0	432	•	0200	E / U	•	1323	34.
		1959	i	8820	4.9	434	1	9330	415	1	9047	415
		1737	•	0020	4 • 7	434	'	7330	41,	•	70.11	413
	HOLSTEIN	1949	4	15073	3.5	515						
		1950	ni.	13132	3.7	48G						
		1951	13	14030	3.4	481	2	13555	465			
		1952	15	14131	3.3	4ó7	2	13315	456			
		1953	15	12581	3.5	446	3	10710	3/0	4	12758	469
		1954	30	13605	3.4	457	19	12437	447	21	12125	413
		1955	24	12167		423	15	12099	429	1 g	12123	
		1956	14	13743	3.5 3.5	423	11	13816	510		14269	426 507
										10		
		1957	18	12687	3.6	452	15	12819	463	17	13072	463
		1958		12698	3.3	425	15	12459	437	16	9490	373
		1959	37	12164	3.4	406	31	11084	380	30	10131	403
		1960	8	11798	3.4	397	В	11588	389	c	11912	405
	1504.51	10.1			- 0							
	JERSEY	1951	2	5865	5.9	341						
		1952	!	4940	5.9	292						
		1953	1	4710	6.2	290						
		1954	2	5385	6.1	328						
		1955	1	5120	6.3	324						
		1957	1	5150	6.2	317						
		10.0		70		503						
5	BROWN SHISS	1950	. 1	16170	3.4	557						
		1951	11	8545	4.1	355						
		1952	6	9140	4.0	360	_					
		1953	12	9618	4.0	384		13295	529	خ	10951	445
		1954	11	12006	3.8	458		13603	532	3	11543	466
		1955	4	14860	3.7	548	2	15475	610	2	11064	440
		1956	6	12628	3.9	484	1	12100	486	1	12993	508
		1957	8	13274	4.0	533	2	11125	482	2	11249	464
		1958	6	12097	3.8	457	1	5080	180			
		1959	8	11509	4.3	495	6	10853	451	5	9389	395
	. SHORTHORN	1955	2	7715	4.1	314						
		1957	2	6315	3.9	244	1	12990	484	2	8639	308
	ALL BREEDS	1949	4	15073	3.5	515						
		1950	15	12091	4 - 0	459						
		1951	28	10736	4.0	409		13555	465			
		1952	24	11941	3.8	426	2	13315	456			
		1953	31	10596	3.9	399	5	11744	434	1	11984	459
		1954	45	12557	3.7	446	22	12640	458	24	12053	420
		1955	31	12000	3.6	429	17	12496	450	20	12077	427
		1956	20	13409	3.6	484	12	13673	508	11	14153	507
		1957	30	11931	3.8	448	19	12302	457	22	12242	444
		1958	33	12528	3.4	431	16	11998	421	16	9490	3/3
		1959	46	11977	3.6	422	38	11001	392	42	10017	402
		1960	8	11798	3.4	397	8	11588	389	5	11912	405

STUE	O 8REED	FRESHENING YEAR	RECOROS NO.	MILK	TEST PCT.	FAT L8.	305-DAY CONTE RECORDS NO.	MPORARY MILK LB.	AV. FAT LB.	YEARLY H RECORDS NO.	HERO AV MILK LB.	ERAGE FAT L8.
001	GUERNS EY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 1 3 7 9 10 11 6 2	5980 8970 7227 7980 7097 8175 8273 8377 8305 9040	5.4 4.8 4.8 4.5 4.6 4.6 4.7	322 434 351 384 321 373 390 393 375 373	5 3 3 1 1	9704 9160 9520 10060 10850	477 445 463 463 468	1 2 2 2 1	7870 9151 9380 8998 8938 9799	415 457 455 438 434 468
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	16	13720 13999 13200 13129 12095 12914 12403 12190 12606 12849 11948 11363 12114 11436	3.3 3.7 3.7 3.6 3.6 3.6 3.7 3.7 3.6 3.6 3.7 3.6	456 508 489 481 434 459 448 440 462 472 430 407 445 411	1 8 22 68 111 137 113 104 82 75	9930 10996 11533 11395 11107 11966 12058 11791 11382 12459 10956	350 433 425 427 415 448 453 431 412 453 395	61 92 112 112 83 81 49	10993 11630 11282 11860 12035 11360 11675 10718	411 435 425 438 444 419 420 398
	JERSEY	1956 1957 1958 1959 1960	1 2 1 3 2	7810 7700 5440 8527 9895	4.9 5.3 5.4 5.2 5.4	385 408 295 439 527	1 1 3 2	8500 8500 7783 8000	399 399 414 437	1 2 2	6922 8088 8360	366 424 447
	8ROWN SWISS	1955 1956 1957 1958 1959	3 3 2 4 10 8	7750 10527 10210 9720 12063 8326	4.6 4.3 4.3 4.5 4.1	351 451 427 432 498 353	3 1 1 9 8	10110 7560 8920 11209 9844	418 323 385 450 400	1 3 1 1	10780 11398 10333 10671	455 444 415 456 448
	M. SHORTHORN	1958 1959	1 2	7600 4755	3.6 3.5	273 169	1 2	6950 5855	263 225	1 2	7848 6453	305 243
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 9 15 17 41 59 128 179 198 177 147 119 99	13720 13999 13200 12709 12018 12625 12161 11934 12309 12497 11721 11175 11821 10472	3.3 3.7 3.7 3.8 3.6 3.6 3.7 3.7 3.8 3.8 3.7 3.6 3.8	456 508 429 472 434 454 445 436 446 428 405 444	1 8 22 68 111 145 118 108 85 90 25	9930 10996 11533 11395 11107 11849 11916 11697 11285 12014 10364	350 433 425 427 418 451 431 411 447	61 93 115 118 88 84 54	10993 11589 11241 11764 11857 11281 11324 10852	411 435 425 438 418 416 418
003	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	6 8 19 20 27 21 12 18 8 7	8450 8329 8295 7901 7910 7950 8561 8003 8606 8823 6858	4.6 4.8 5.1 5.2 5.0 4.8 4.6 4.7 4.7	391 397 424 411 397 381 404 368 384 413	2 2 3 5 8 10 10 11 6 5	8735 10755 10123 9456 9195 9544 9878 8964 8990 9686 7433	443 512 507 475 438 457 458 426 429 476 373	5 10 6 5 2	8853 8818 8842 9370 10503	404 437 433 469 450
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	23 35 36 48 47 39 29 25 11	10790 12085 11443 11468 11280 11279 11457 10610 10283 8665 14240	3.8 3.7 3.7 3.7 3.6 3.6 3.7 3.7 3.5 3.8	399 450 423 420 414 405 410 384 376 305 548	6 9 18 23 22 10 3	11610 12612 11376 11592 11410 12017 11743 15030	439 448 413 422 419 455 451 560	21 21 9 2	11115 11013 11464 10399 14900	404 401 434 383 561
	JERSEY	1947 1948 1949	1 2 1	4070 4500 3950	5.2 5.6 5.4	213 242 215						

TABLE 10.--AVERAGE OF THE RECORDS OF OAUGHTERS DF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREE0	FRESHENING YEAR 1950 1951 1952	RECORDS NO. 1	MILK LB. 5370 10310 8140	TEST PCT. 4.8 4.6 4.0	FAT LB. 256 470 329	305-DAY CO RECOR NO.	RUS		AV. FAT LB.	YEARLY PRECORUS NO.		ERAGE FAT LB.
	BRDWN SWISS	1949 1950 1951 1952 1953 1954 1955	2 1 1 2 2 4 2	6130 5510 9170 6975 11770 11130 11890	4.4 4.5 4.4 4.0 4.0 4.0	261 249 408 279 463 442 444		2	10925	434			
	M. SHORTHORN	1951 1952 1953 1954	5 4 5 3	7250 6958 6396 8897	4.0 4.1 4.1 4.1	290 278 254 364		2 3 2	6455 6950 7400	266 301 276	3 2	6878 5134	279 196
	ALL BREEDS	1955 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	30 45 58 70 81 67 48 50 22 11 4	8220 1009B 11080 10099 10276 9870 9802 10219 9610 9725 8765 6858 14240	4.0 4.0 4.2 4.1 4.2 4.0 3.9 4.0 4.0 4.6 3.8	331 391 431 414 413 401 385 395 382 383 374 318 548		2 3 11 19 28 36 37 16 8 3	8735 10755 10123 10631 10525 10722 10729 10440 10882 10458 7433 15030	443 512 507 455 425 429 422 414 445 466 373 560	29 33 15 7 2	10287 9991 10415 9664 10503 14900	391 399 433 444 450 561
004	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955	1 1 3 2 6 3 3 2 1	7950 7780 8283 7445 7042 7253 6057 5285 8600 6760	5.1 6.3 5.4 5.5 5.1 5.2 5.0 4.4 5.0 5.1	405 493 445 407 360 373 304 234 433 346		1 1 3 2 1	7970 8140 8400 8380 7620	370 385 390 356 400 558	2 2 1 1	8851 7870 6704 7881	390 337 328 391
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955	10 9 21 16 19 16 12 9 4	11437 11183 10480 11868 10369 10410 11444 12488 13140 13730	3.6 3.7 3.8 3.6 3.6 3.5 3.5 3.1 3.7	413 417 394 422 371 363 399 409 403 503		1 1 4 7 7 8 3 1	15780 16080 11115 10946 11263 11781 13550 15310	553 510 420 398 414 433 497 547	3 5 1	8626 9468 7412	343 332 284
	YBZRBL	1949 1950 1951 1952	1 3 2 1	5180 5490 6460 7110	5.2 5.5 5.9 4.9	268 300 380 352							
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955	11 10 25 21 27 20 15 11 5	11120 10843 10005 10535 9340 9772 10367 11178 12232 10245	3.7 4.0 4.0 4.1 3.8 3.8 3.5 3.5	413 424 395 403 369 364 380 377 413 425		1 5 8 10 10 4 2	16080 10486 10595 10404 11101 12068 12875	553 510 410 396 407 417 473 553	5 7 2 1	8716 9011 7058 7881	362 333 306 391
005	GUERNSEY	1955	1	8040	4.4	355							
005	HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 3 7 18 19 18 26 20 11 15 9	12915 11683 11199 12472 11912 12527 12067 13393 12289 14602 12924 13160	3.3 3.7 3.7 3.6 3.7 3.8 3.8 3.8 3.8 3.8	421 437 418 442 444 464 452 506 454 528 477 504		3 7 10 18 18 11 5 7	12810 13640 13298 12752 13155 13530 14586 15067 12000	443 485 501 458 485 488 523 526 457	6 8 18 19 10 5 5	1131B 11975 12066 12849 13053 13911 12629 13625	403 442 441 405 474 510 459

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	REC		EMPORARY MILK Lb.	AV. FAT LB.	YEARLY E RECORDS NO.		FAT L8.
BROWN SWISS	1953 1954 1955 1956 1957	1 3 3 1	6000 8083 10483 11040 7360	4.5 3.6 3.9 4.2 3.9	270 290 402 463 290		1 3	10470 10783 10313	417 444 412	1	8546 9952	403 399
ALL BRÉEOS	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 3 7 18 20 21 30 21 12 5 9	12915 11683 11199 12472 11616 11892 11774 13281 11878 14602 12924 13160	3.3 3.7 3.6 3.8 3.8 3.8 3.8 3.8 3.7 3.7	421 437 418 442 435 439 444 504 440 528 477		3 8 13 21 16 11 5 7	12810 13244 12718 12404 13155 13530 14586 15067 12000	443 476 488 452 465 488 523 526 457	გ 19	11318 11975 11900 12705 13053 13911 12629 13625	403 442 439 462 474 510 459 481
006 GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	3 3 7 11 10 12 15 3 1 2 5	7060 5555 7283 8077 7966 7900 9042 8259 10567 7630 10040 8916 9550	4.9 4.2 4.9 4.8 4.7 4.7 4.9 5.7 4.9	346 267 303 397 381 387 421 408 532 434 478 413 445		3 2 8 13 3 1 2 4	9850 9105 8843 9238 9667 8790 9490 9483 9500	398 383 396 405 459 432 445 460 465	4 5 2 1 2 3 1	8851 9754 9413 9974 9914 8913 8775	390 403 473 492 487 444 429
HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	10 10 40 40 65 69 60 43 37 14	11519 12530 11942 12531 12546 12364 12650 13023 12577 15028 13893 15017	3.7 3.7 3.6 3.6 3.6 3.6 3.5 3.5 3.5	426 468 440 455 455 448 452 458 441 521 489 560		2 4 13 14 36 38 42 35 33 14 13	12135 13225 12838 14132 12392 12754 12561 14033 14031 13565 13185 15090	396 474 472 504 463 461 455 490 454 474 475 606	2ช	11629 12360 12459 12795 12947 12540 13143	433 448 446 460 451 433 469
JERSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 7 11 7 17 17 16 3 2	9340 8173 9725 7696 7822 8459 10059 9063 7535 7780 8440	5.6 5.0 5.2 5.2 5.3 4.9 5.3 4.9 5.2 4.3	521 411 502 399 415 412 537 450 388 336 419		2 1 2 2 2 2 3 2 2	8540 8250 8995 8945 8005 9293 7685 7120	424 420 461 435 420 485 393 368	2 2	7816 8878	392 461
BROWN SWISS	1953 1954 1955 1956 195 <i>7</i>	1 2 2 1 3	12410 10990 10930 9850 8260	4.6 4.5 3.8 4.5 4.3	566 495 414 444 361		1 2 1 1	12610 10330 11590 16520	554 448 447 680	1 1 2 1	9657 9570 10486 10933 10257	417 391 435 465 425
M. SHORTHORN	1951 1954	1 2	4220 5560	4.4 3.4	184 187		1	10020	349	1	8753	304
ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 4 15 24 63 57 95 105 81 48 44 20 18	7060 5555 10381 9760 10738 11124 11256 10970 12019 12598 11938 13138 12866 15017	4.9 4.9 4.1 4.1 4.1 4.0 3.7 3.7 3.8 3.8	346 267 414 431 436 436 445 4471 457 435 485 478		2 6 17 18 46 55 50 39 38 18 15	12135 11663 12041 13003 11625 11698 12102 13510 12441 12658 12693 15090	396 457 456 486 456 446 456 482 455 471 473 606	26 39 32 29 35 14 10	10832 11684 12145 12633 12647 11763 12706	422 438 447 461 452 435 465
007 GUERNSEY	1951 1952 1953	3 4 15	9577 9520	4.2 4.8	400 455		1	7640 8920	377 470			

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD BREED	FRESHENING	RECOROS	MILK	TEST	FA1	305-DAY CONT. RECORDS	MILK	FAT	YEARLY RECORUS	MILK	FAT
	YEAR 1954	NO. 17	LB. 8152	PCT. 5.0	LB.	NO. 12	LB. 9011	L6. 388	NO.	LB. 9358	LB. 422
	1955	9	8336	5.0	411	6	10803	456	5	11665	516
	1956	6	8615	5.0	120	4 3	11003	448	4	11944	499
	1957 1958	4 2	B903 8245	4.8 5.0	431 414	3	11990	479	3	11816	459
1101 STS TH		0									
HOLSTEIN	1949 1950	2 12	12640 12807	3.7 3.7	462 468	6	12540	487			
	1951	27	12279	3.7	447	10	11169	418			
	1952	47	11902	3.6	429	22	12314	461	• • •		
	1953 1954	55 62	12871 10967	3.6 3.6	462 394	28 4 6	12400 11581	463 425	19 36	11189 11325	423 423
	1955	80	12639	3.7	462	65	11967	452	48	10979	415
	1956	70	12664	3.7	466	56	12438	463	40	12021	445
	1957 1958	52 41	12759 12318	3.6 3.6	460 436	41 29	12159 12215	440 445	31 21	12145 12285	451 442
	1959	33	13590	3.6	490	30	12747	471	16	12827	463
	1960	6	13395	3.7	494	5	11956	426	4	11072	405
JERSEY	1951	2	8340	5.3	432						
	1952 1953	1 14	8910	5 - 3	469	1	9460	468	,	4077	1.01
	1954	9	7886 7552	5.4 5.3	422 398	2 4	7190 7828	362 400	1	8273	401
	1955	7	7959	5.4	428	5	9184	475			
	1956 1957	6 2	7550 10865	5.0 5.0	384 531	6	9425 8050	492 448	2	8224	409
	1958	4	8295	5.0	410	2	8145	428	1	7281	377
	1960	1	7290	4.9	359	1	7790	398	1	7554	389
BROWN SWISS	1952	1	9520	4.7	450						
	1953	2	12420	4.5	550	1	11640	488	1	12829	525
	1954	7	11844	4.2	501	9	11057	1.1.0	2	10613	410
	1955 1956	13 14	10486 9736	4.3	449 420	10	11056 11760	449 503	6 11	9283 11691	379 461
	1957	9	10322	4.4	445	5	11682	481	o	11551	435
	1958 1959	11 3	12747 10803	4.3	540 446	3 3	10690 10283	450 422	3 2	9730 10895	416 463
M. SHORTHORN	1957	1	10660	4.0	430	1	8130	298	2.	10073	403
ALL BREEDS	1949	2	12640	3.7	462	·	0.00	2,0			
	1950	12	12807	3.7	468	6	12540	487			
	1951 1952	32 53	11779 11621	3.8 3.8	442 432	11 24	10848 12054	4 1 4 4 6 1			
	1953	86	11114	4.2	444	38	11452	445	21	10613	423
	1954	95	10204	4.0	403	62	10841	416	49	10863	422
	1955 1956	109 96	11726 11665	4.0 4.0	454 451	25 76	11625 12036	454 470	59 63	10865 11838	420 450
	1957	68	12123	3.8	458	51	11942	444	40	12031	449
	1958 1959	58 36	1 1 982 13358	3.8 3.7	453 486	34 33	11841 12523	445 467	25 1ხ	11778 12612	436 463
	1960	7	12523	3.9	475	6	11262	421	5	10368	402
008 HOLSTEIN	1947	1	9100	3.7	338						
	1948	2	10975	3.3	359						
	1949 1950	1 3	6060 1 177 0	3.8 3.5	233 408	1	13530	535			
	1951	9	11110	3.6	395	4	12115	444			
	1952	12 14	14598	3.5	514	3 5	12440	438 445	6.	13307	465
	1953 1954	8	14191 12765	3.5 3.5	498 440	9 1	11912 9690	392		11521	502
	1955	6	14090	3.4	474	2	11350	434	2	12372	426
	1956 1958	4 2	14758 15515	3.4 3.6	507 549	1 2	9950 14060	368 520	2 1	13544	485 388
	1959	ī	14260	3.6	512	ī	14760	530	i	14377	519
ALL BREEOS	1947	1	9100	3.7	338						
ALL SHELDS	1948	2	10975	3.3	359						
	1949	1 3	6060	3.8	233	,	14520	L / L			
	1950 1951	9	11770 11110	3.5 3.6	408 395	1	13530 12115	535 444			
	1952	12	14598	3.5	514	3	12440	438			
	1953 1954	14 8	14 19 1 12765	3.5 3.5	498 440	5 1	11912 9690	445 392	5	13307 11521	465 502
	1955	6	14090	3.4	474	2	11350	434	2	12372	426
	1956	4	14758	3.4	507	1 2	9950	363	2	13544	485
	1958 1959	2 1	15515 14260	3.6 3.6	549 512	1	14060 14760	520 530	1	11042 14377	388 519
009 HOLSTEIN	1951	7	11897	3.7	439	3	12810	456			
	1952 1953	10 22	12589 11710	3.8 3.6	470 420	9 21	12926 11 7 40	470 406	9	10866	386
	1954	28	11349	3.5	399	28	11815	420			
	1955 1956	22 17	11272	3.5	393	22	11889	418	21	11398	404
	1730										

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONTE	EMPORARY	AV.	YEARLY !	HERD AV	ERAGE
STUD	BKLEO	FRESHENING	RECOROS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECURDS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NO.	LB.	LB.	NO.	LB.	LB.
		1957	7	10584	3.3	356	7	11571	409	7	12403	444
		1958	1	13690	3.5	473	1	12220	447	1	12633	464
		1959	1	12700	3.6	459	1	10890	403	1	12306	447
	ALL BREEDS	1951	7	11897	3.7	439	3	12810	456			
		1952	10	12589	3.b	470	9	12926	470			
		1953	22	11710	3.6	420	21	11740	406	9	10866	386
		1954	28	11349	3.5	399	28	11815	420			
		1955	22	11272	3.5	393	22	11889	418	21	1139B	404
		1956	17	11306	3.5	397	15	11847	42B	15	11616	410
		1957	7	10584	3.3	356	7	11571	409	7	12403	444
		195B	1	13690	3.5	473	1	12220	447	1	12633	464
		1959	1	12700	3.6	459	1	10890	403	1	12306	447

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS—GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	GROUPE	01 3100; 01	DKEEU, E	T TEAN	UF FR	ESHENTING						
STUO	8REE0	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT L8.	305-0AY CONT RECORDS NO.		AV. FAT L8.	YEARLY I RECORDS NO.		ERAGE FAT LB.
						7.0.						
001	AYRSHIRE	1953	25	9318	4.2	391	3	8520	368	2	7740	343
		1954 1955	78 100	9522	4.2	396	8	8734	375	4 7	9124	379
		1956		9196	4.2	385	8	9100	372		8619	353
		1957	85	9318	4.2	387	10	9669	395	10	10098	414
		1958	85 59	8787 8579	4.2	364 350	8 14	10560 9727	448 38 7	13	9390	399
		1959	105	9338	4.2	396	69	10136	411	68	9302	406
		1960	48	9368	4.1	388	42	9413	388	34	9882	398
						•				٠.	, 502	3.0
	GUERNSEY	1952	3	7400	5.8	424						
		1953	20	7796	5.1	399						
		1954	58	7736	5.2	401	2	7925	403			
		1955 1956	56 46	7447 7759	5.1	375	2	7705	373	3	8865	416
		1957	34	7980	4.9	382				3	7030	347
		1958	12	7526	5.0	387 374						
		1959	7	7477	4.6	347	4	8110	398	4	9524	474
		1960	3	8040	4.8	383	2	9035	447	ĩ	9548	470
	HOLSTEIN	1951	1	11470	4.2	480	1	11.1.00	530			
		1952 1953	12 72	15003 12260	3.6	541 443	;	14420 10890	510 409	1	11914	436
		1954	274	12234	3.6	443	14	13349	494	8	10833	417
		1955	396	12042	3.6	432	23	13487	495	22	11583	429
		1956	431	12401	3.7	453	36	13289	479	35	12380	450
		1957	400	11703	3.7	431	47	12283	456	9	13517	505
		1958	364	11881	3.7	438	118	12237	456	141	11814	439
		1959	453	12080	3.7	453	323	12120	456	310	11761	442
		1960	88	12190	3.7	454	69	11880	445	59	11953	442
	JERSEY	1951		9722	F 0	1: 0.4	2	8200	498			
	JEKSET	1952	6 10	7507	5.0 5.3	486 395	2	8560	478			
		1953	16	6970	5.5	379	3	9363	496	2	10355	538
		1954	41	7774	5.2	402	14	8284	431	13	8324	429
		1955	38	8051	5.3	423	ii	8014	423	11	7802	410
		1956	34	7887	5.2	406	12	8660	437	13	8144	413
		1957	28	7230	5.2	374	9	8912	463	6	9078	455
		1958	37	7354	5.5	400	13	7812	413	7	7812	385
		1959	35	7302	5.3	382	25	7073	364	18	7500	387
		1960	11	5957	5.1	314	8	7256	379	7	7124	378
8	ROWN SWISS	1952	1	13000	4 _ 4	573						
		1953	3	7550	4.4	327						
		1954	20	10872	4.3	464	1	10310	418			
		1955	20	10762	4 - I	448	1	10610	428	2		443
		1956	34	10570	4.2	443	2	11695	519	2	10889	440
		1957	37	10108	4.2	424	4	8850	347	7	10157	1.77
		1958 1959	32 62	9449 9292	4.2	392 403	5	9968 10033	411 419	45	10153 9648	436 403
		1960	13	10175	4.4	426	36	10354	431	9	9742	403
					***	420	,	.0004	73.	,	., 72	+03
М	. SHORTHORN	1954	7	7010	4.1	288						
		1955	8	7744	3.9	307	2	8350	326	2	5826	23 I
		1956	11	7465	4.0	297	2	8525	327	3	7096	278
		1957	10	7246	4.0	285	3	7533	278	1	7368	282
		1958	5	7564	3.6	273	1 14	8250	282	2	6786	281
		1959 1960	17 10	7812 8263	3.9 3.8	308 313	10	7354 7941	286 305	14 8	8047 8682	303 325
										Ü	0002	323
	ALL BREEDS	1951	7	9971	4.9	485	2	8200	498			
		1952 1953	26 136	11166	4.6	472 417	3 7	10513 9220	486 429	5	9621	440
		1954	478	10336	4.2	417	39	10228	440	25	9255	417
		1955	618	10823	3.9	418	47	10228	443	47	9790	404
		1956	641	11238	3.9	433	62	11604	454	66	10671	425
		1957	594	10687	3.9	413	71	11267	442	16	11468	472
		1958	509	10871	3.9	419	151	11522	443	170	I 1336	432
		1959	679	11001	4.0	431	471	11226	436	459	10890	427
		1960	173	10560	4.0	416	140	10456	413		10659	415

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING DEGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT L8.	305-DAY CON RECORD ND.		AV. FAT LB.	YEARLY F RECORDS NO.	HERD AVI	FAT LB.
001	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 5 12 26 42 62 87 130 120 103 46 15	7210 7164 7298 7577 7544 7719 7799 7537 7385 8024 6881 8302 8220	5.1 5.0 4.8 4.9 4.7 4.8 4.8 4.8 4.8 4.6 4.6	367 356 348 368 354 367 369 368 356 348 372 328 376 403	1 11 24 51 78 120 114 97 41 13	10700 8632 8257 8646 8572 8659 8358 8319 8431 8015 7881 8765	529 427 399 402 384 390 376 377 386 366 376 422	71 112 111 92 37 11 15 3	8420 8540 8825 8109 8015 8721 8282 8375	385 388 396 367 368 412 393 422
	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 8 19 32 64 93 117 118 121 79 42 49 5	9690 11820 10686 11315 11815 12025 11573 11416 11038 11532 12068 11738 12826	3.8 3.8 3.8 3.7 3.7 3.7 3.7 3.8 3.8 3.8 3.8	371 441 406 426 436 446 426 419 423 438 455 436 487	3 3 45 45 82 109 114 119 73 32 49	11153 13640 12597 12198 11376 11180 10861 10987 11217 11662 11862 12322	419 487 468 461 439 435 417 433 437 442 454	78 96 109 106 71 31 47	11363 11581 10945 10871 10746 12147 12140 13010	441 447 420 420 422 466 461 479
	JERSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 16 49 55 76 90 78 52 36 20 25 7	6992 6454 7432 7258 7253 7089 7007 6993 7209 7500 7276 7803 6988	5.2 5.4 5.1 5.1 5.2 5.2 5.2 5.3 5.1 5.1 5.0 5.0	364 346 374 370 366 367 360 371 371 383 373 393 346	5 18 34 60 72 69 46 28 18 18	7708 7854 7330 7224 7129 7122 6966 7469 7937 7929 7763 7465	412 419 381 377 368 377 370 398 421 417 409 415	39 69 46 26 7 21 7	7169 7195 7249 7395 6960 7888 8047 8123	368 378 384 396 365 418 426 436
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 12 36 94 129 202 270 325 290 260 145 82 74	7210 7513 7928 8130 8358 8841 9018 8947 9061 9863 9658 10530 9518	5.1 4.9 4.8 4.7 4.5 4.5 4.4 4.4 4.0	367 362 368 379 379 389 387 385 386 410 407 417 413	9 32 73 156 232 298 274 244 132 63 71	9189 8664 8717 9124 9115 9225 9165 9523 9904 9843 10617 9909	428 428 405 409 398 403 392 407 419 419 433 431	188 277 266 226 115 63 69	9381 9259 9421 9316 9637 10129 10886 10061	405 406 403 395 401 441 443 449
002	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	39 18 18 13 9 8 3 3 1	7970 7706 8036 7462 8028 7039 7653 8107 7970 7520 9250	4.9 5.0 5.0 5.1 5.0 4.6 4.6 4.6	389 382 401 375 397 349 352 400 370 343 404	2 2 3 2 4 5 5 1 2 1	7385 8990 10457 9475 9440 7852 8404 7390 7485 8480 7780	387 421 435 365 408 360 373 359 330 405 375	4 1 1 1	8033 8240 8197 6682 7881	371 405 419 329 391
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	36 4 11 30 20 21 17 12 8 6 6	12036 12523 11011 11883 11537 12197 11864 11823 11329 14050 11788 10215 14480 11520	3.5 3.5 3.5 3.5 3.5 3.6 3.3 3.4 3.5 3.4	424 423 382 408 408 430 426 391 387 489 411 348 482 389	3 3 4 16 10 13 13 11 8 6 6 6	14023 12448 11628 12835 12612 12263 10796 11440 10418 12800	534 493 502 458 430 466 446 394 438 394 456 447	9 9 6 6 4 5	12776 11549 11530 11338 10284 12731 11260 13472	472 415 424 430 399 465 432 522

TABLE 10.---AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-0	AY CONTE	MONDADV	AV.	YEARLY H	JEDD AVI	EDACE
STUD	BREED	FRESHENING	RECORDS	MIŁK	TEST	FAT		RECOROS	MILK	FAT	RECURDS	MILK	FAT
3.00	DILECT	YEAR	NO.	LB.	PC T.	18.		NO.	L8.	LB.	NO.	L8.	LB.
		TEAN	110.	LD.	FC 1.			140 •	ro.		140.	LO.	r.D.
	JERSEY	1947	12	8440	5.0	416							
		1948	4	8380	4.9	410							
		1949	3	7877	4.9	378							
		1950	2	8870	4.8	423							
		1952	1	7710	5.6	435		1	7310	385			
		1954	i	5490	5.1	283		i	7430	388	1	7630	408
	ALL BREEDS	1947	87	9717	4.4	407		5	12468	475			
		1948	26	8550	4.7	393		5	12020	464			
		1949	32	9043	4.5	392		7	12494	473			
		1950	45	10472	4.0	399		16	12117	448			
		1951	29	10448	4.0	405		14	11003	424			
		1952	31	10555	4.0	406		19	11233	434			
		1953	25	10516	3.9	402		18	11443	433	13	11317	441
		1954	16	10730	3.7	386		13	11516	430	11	10892	414
		1955	11	10413	3.7	382		10	10134	381	7	11054	423
		1956	7	13117	3.6	468		7	11017	433	7	10673	416
		1957	7	11426	3.6	410		7	10041	391	5	9804	397
		1958	6	10215	3.4	348		Ś	1280C	456	5	12731	465
		1959	i	14180	3.4	482		ī	11810	447	ī	11260	432
		1960	i	11520	3.4	389		•			i	13472	522

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTER. OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAI L8.	305-DAY CONTE RECORDS NO.	MPORARY MILK LB.	AV. FAT LB.	YEARLY H RECORDS NO.	ERD AVE MILK LB.	RAGE FAT L8.
001	AYRSHIRE	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	7 47 75 149 170 231 232 221 146 113 77 18	8839 9285 8715 8674 8650 8825 8419 8599 9036 8938 9019 8325	4 · 1 4 · 0 4 · 2	361 378 359 357 355 365 349 355 374 367 363 347	16 38 63 136 190 201 199 129 93 72	10386 9313 9216 9122 9356 8874 8996 9490 9807 9336 9133	433 379 373 367 377 360 367 388 395 381 368	105 175 175 162 106 65 67	8972 9104 9383 9296 9850 9690 9491 9790	362 365 377 372 399 398 388 402
	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 6 24 60 109 205 330 435 427 307 221 139 78	8180 9527 9354 8689 7925 7914 7956 7972 7903 8025 8298 8398 8032 7655	4.6 4.8 4.9 4.8 4.9 4.9 4.9 4.9 4.9 4.9 4.9	400 4443 420 381 384 392 392 402 403 387 352	1 10 27 56 121 253 361 380 257 187 106 69	11050 9706 9603 8702 8796 8803 8720 8730 9004 9136 9203 8555 7935	539 454 454 407 403 396 397 408 416 410 395 386	234 326 345 245 164 97 53	8576 8753 8820 9000 8972 9546 9040 8219	393 399 403 411 412 430 421 403
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	4 4 37 110 239 460 674 821 987 810 600 691 931	10870 12910 11807 11099 11393 11109 11333 11317 11209 11668 11943 11691 12022 11587	4.0 3.8 3.8 3.7 3.8 3.8 3.8 3.8 3.8 3.8	436 448 419 426 425 425 421 438 438 438 436	16 40 133 277 458 606 821 676 511 556 899	12168 11908 11327 11079 11105 10947 10876 11433 11739 11843 12131 12065	452 457 428 446 417 411 431 444 449 454	400 537 743 609 443 457 823	10719 10774 10917 11249 11462 12120 12344 12307	406 409 416 429 438 454 464
	JERSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	8 30 65 109 137 116 87 64 47 108 103	7953 7278 7798 7482 7409 7524 7702 8087 8323 7691 7564 7815	5.0 5.3 5.3 5.2 5.2 5.2 5.1 5.1 5.1 5.3 5.3	398 385 407 384 386 392 392 408 417 394 397	1 5 22 40 63 68 46 36 21 46 64	8450 8826 7991 7743 7652 7819 7665 8079 8596 8067 8041 7937	422 459 412 402 399 401 396 415 445 414 415	56 65 45 33 16 58 68 15	8008 7814 8090 7894 8138 8510 8301 8166	413 403 419 404 423 438 431 421
В	ROWN SWISS	1952 1953 1954 1955 1956 1957 1958 1959	4 3 4 16 13 12 19 19	10040 9377 7078 9333 7907 8976 9567 9003 9840	4.6 4.5 4.3 4.4 4.1 4.2 4.3	453 422 304 396 345 370 404 376 406	1 3 4 5	8100 10196 10180 9544 9266	361 378 394 390 382	1 3 4 12 12 3	7815 8720 9995 10326 10015 10867	344 324 375 418 417 457
	ALL 8REEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	5 10 76 247 488 927 1314 1607 1749 1415 1026 1070 1208 235	10332 10880 10353 9704 9728 9580 9724 9769 9840 10202 10543 11145 10875	4.2 4.3 4.3 4.3 4.2 4.2 4.2 4.1 4.1 4.0 3.9	429 456 433 407 403 396 402 405 402 413 421 436 422	1 29 88 249 521 910 1225 1449 1162 852 806 1113 211	11050 11191 10749 10135 9996 9930 9870 9932 10390 10742 11031 11470 11437	539 451 452 414 405 403 404 401 415 429 435 443	795 1103 1309 1052 733 689 1023 162	9667 9737 10060 10312 10591 11143 11690 11487	397 399 408 415 426 443 454
002	AYRSHIRE	1955 1956 1957	1 3 5	9030 8353	4.0 4.2	363 348						

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREELING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT	EMBNO AD V	AV	YEARLY I	TESE VIII	EDACE
STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECURLS	MILK	FAT
3.05	511225	YEAR	NO.	Le.	PCT.	LB.	NO.	LE.	LB.	NO.	LB.	LB.
		1958	11	9487	4.2	393	7	9549	395	6	10010	409
		1959	68	10363	4.1	423	67	9761	400	50	10009	414
		1960	27	9987	4.3	425	25	9230	387	18	9847	422
	GUERNSEY	1950	1	6270	5.2	326						
	OULKINGET	1951	9	7130	5.0	357						
		1952	17	7625	5.0	380	1	9420	445			
		1953	20	7817	5.0	387	3	8447	401	1	9156	451
		1954	21	8089	5.0	400	4	8635	398	2	7783	378
		1955	17	8365	4.9	409	2	8610	415	2	8382	407
		1956	15	7609	4 • B	367	3	7733	369	4	8404	405
		1957	13	8075	4.8	361	10	8862	395	10	9375	429
		1958	23	8650	4.9	420	20	9602	428	19	10045	450
		1959	18	7596	5.0	379	18	9462	410	17	9871	428
		1960	1	3390	5.0	17C	1	3910	167	1	9265	419
	HOLSTEIN	1947	1	12890	4.9	634						
		1948	3	14830	4.2	627						
		1949	3	14253	4.1	587						
		1950	14	15648	4.2	659						
		1951	9	13042	3.8	498						
		1952	42	11543	3.8	433	28	11641	428			
		1953	155	11402	3.7	4 18	120	11234	421	103	10431	398
		1954	295	11424	3 .7	420	247	11163	422	214	10769	408
		1955	509	11502	3.7	428	450	11139	422	413	11336	429
		1956	708	11706	3.7	435	643	11642	436	555	11577	438
		1957	807	11913	3.7	443	751	11835	443	646	11738	442
		195B	914	11874	3.7	443	730	11728	441	642	11889	446
		1959	1053	12230	3.7	457	1035	12010	451	913	12265	462
		1960	196	11970	3.7	445	179	12185	456	143	12298	463
	JERSLY	1952	3	7157	5.7	404						
		1953	6	6598	5.5	366						
		1954	8	7778	5.4	409						
		1955	16	8270	5.1	417	2	8265	416	2	7636	374
		1956	15	8168	5.1	414	6	8917	443	6	8148	404
		1957	6	8975	4.9	436	1	8950	420	1	8295	403
		1958	43	7609	5.0	384	20	7619	396	26	8407	434
		1959	96	7533	5.1	379	63	7719	398	59	8158	420
		1960	23	8544	5.1	440	18	7941	399	9	8047	409
В	ROWN SWISS	1955	1	7760	4.4	339						
		1956	16	9834	4.2	413	3	11437	478	Ž	11243	479
		1957	20	10696	4.2	447	3	8343	341	3	9243	382
		1958	37	10716	4.2	445	8	9509	379	8	9604	400
		1959 1960	39 8	10638 10080	4.2 4.0	448 407	16 4	10307 9673	422 390	19 5	10232 10242	430 425
	ALL BREEDS	1947	1	12890	4.9	634						
	ALL BREEDS	1947	3									
		1948	3	14830 14253	4.2 4.1	62 7 587						
		1950	5 5	13772	4.4	592						
		1951	18	10086	4.4	428						
		1952	62	10256	4.2	417	29	11564	429			
		1953	181	10236	3.9	413	123	11166	420	104	10419	399
		1954	324	11118	3.8	419	251	11122	422	216	10742	408
		1955	544	11298	3.8	426	454	11115	421	417	11304	429
		1956	757	11502	3.8	432	655	11599	436	567	11517	437
		1957	851	11792	3.8	441	765	11778	442	660	11685	442
		1958	1028	11556	3.8	440	785	11527	439	701	11668	445
		1959	1274	11662	3.9	448	1199	1159B	ել ել ել	1066	1.184.1	456
		1960	255	11358	3.9	440	227	11442	442	176	11754	455

STUD	BREEO	FRESHENING YEAR	RECOROS NO.	MILK LB.	TEST PCT.	FAT LB.	305-0AY CONTI RECORDS NO.	EMPORARY MILK LB.	AV. FAT LB.	YEARLY F RECORDS NO.	HERÐ AVI MILK LB.	ERAGE FAT LB.
000	GUERNSEY	1947 1948 1949 1950 1951	30 4 3 3 3 1	7473 8735 7707 8233 6683 5440	4.9 4.8 4.6 4.9 4.7	364 415 362 407 316 239	No.			NO.		25*
	HOLSTEIN	1947 1948 1949 1950	9 3 2 1	8577 8017 6605 9530	3.6 3.6 3.4 4.1	314 286 224 391						
	ALL BREEDS	1947 1948 1949 1950 1951 1952	39 7 5 4 3	7728 8427 7266 8558 6683 5440	4.6 4.2 4.1 4.7 4.7	352 360 307 403 316 239						
001	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 14 45 120 153 175 137 111 106 47	7273 7186 7696 7364 7483 7599 7718 8018 8407 8385 8369	4.9 4.9 5.0 5.1 4.9 5.0 4.9	354 348 376 370 371 383 379 398 410 408 382	1 6 20 37 28 34 46 41	9250 7462 8504 7815 8306 8670 9242 8955 9085	394 390 405 387 399 425 423 418	1 5 15 20 33 45 36	9657 7824 9103 8427 8725 9469 9000 8971	428 376 390 394 413 430 423 408
	HOLSTEIN	1951 1952 1953 1954 1955 1956 1957 1958 1959	13 60 214 324 577 792 726 941 1269 281	10445 10979 11389 11751 11862 12389 12329 12455 12989 12977	3.9 3.8 3.7 3.7 3.8 3.7 3.8 3.7	412 417 419 430 446 462 464 464 478 478	6 17 48 85 122 173 476 1231 250	11007 12948 12999 12664 13299 13095 12551 12680 13164	402 475 481 475 497 493 472 474	2 13 39 136 180 453 1059 224	11271 11323 10507 12280 12661 12395 12582 13250	390 416 396 463 479 468 474
	JERSEY	1952 1953 1954 1955 1956 1957 1958 1959	9 26 37 28 34 31 50 83 30	8384 6763 7654 7473 7726 8147 8210 8015 7630	5.4 5.3 5.4 5.2 5.3 5.2 5.1 5.1	446 355 414 387 404 424 413 412 387	1 3 4 4 2 2 2 10 47 17	9400 6800 8585 8918 9300 8700 8760 8384 8462	477 355 429 437 493 437 428 426 431	1 1 3 3 11 37 24	6344 7390 6466 9563 8452 8647 8611	317 371 445 495 437 442 432
	ALL BREEOS	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 27 114 360 514 780 963 868 1097 1399 324	7273 8755 9478 9713 10186 10748 11560 11628 11870 12539 12297	4.9 4.4 4.4 4.3 4.2 4.1 4.0 4.0 3.9 3.8	354 378 403 398 411 430 448 454 456 471	8 26 72 126 152 209 532 1319 280	10586 10973 11505 11121 12327 12333 12194 12411 12689	411 441 457 448 479 481 467 470 479	3 19 55 165 216 509 1132 259	10733 10140 10067 11604 12017 12051 12340 12638	403 400 394 452 469 464 472 486
002	GUERNSEY	1950 1951 1952 1953 1954 1955 1956	1 2 4 5 4 2 2 2	8190 7785 6840 8394 6673 7975 7285 8905	4.4 4.5 4.6 4.6 4.5 4.8 5.1	359 354 315 380 298 381 375 431	1 2 1	8080 8590 8150	412 427 407	1 1	9276 8753 8142	479 444 426
	HOLSTEIN	1951 1952 1953 1954 1955 1956	4 2 3 3 1 1	12088 11660 10577 10570 8940 15380 15530	3.7 3.7 3.7 3.7 3.2 3.8 3.6	444 427 398 393 288 578 563	!	10370	377	1	9690 10911	420 420
	ALL BREEDS	1958 1950 1951	1 1 6	13970 8190	3.6 4.4	505 359	1	11310	434	1	10028	383

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR	RECORDS NO.	MILK	TEST PCT.	FAT LB.	RE	CONTI CORDS NO.	EMPORARY MILK LB.	AV. FAT LB.	YEARLY I RECORDS NO.	MILK	FAT
		1952 1953 1954	6 8 7	8447 9213 8343	4.3 4.3 4.1	352 387 339		1 1 2	6080 8590 8150	412 427 407	1	9276 8753	LB. 479 444
		1955 1956	3	8297 9983	4.2	350 442		_			1	9690	420
		1957 1958	3 1	11113 13970	4.4 3.6	475 505		2 1	10220 11310	457 434	2 1	9527 10028	423 383
004	GUERNSEY	1947 1948	20 6	5916 6272	5.1 5.1	304 323							
		1949 1950	5 5	6956 6696	5.1 5.0	356 338							
		1951 1952	2	7005 7340	5.1 5.2	351 372							
		1953 1954	1	8030 7600	4.6 3.9	370 300							
	HOLSTEIN	1947 1948	10 2	9277 9885	3.6 3.8	330 364							
		1949 1950	2 4	10395 8778	3.1 3.2	322 285							
		1951 1952	1	10080 12470	3.4 3.4	347 427							
	ALL BREEDS	1947 1948	30 8	7036 7175	4.6 4.8	312 334							
		1949 1950	7 9	7939 7621	4.5 4.2	347 314							
		1951 1952	3 3	8030 9050	4.5 4.6	350 390							
		1953 1954	1	8030 7600	4.6 3.9	370 300							
005	GUERNSEY	1950	2	9070	5.5	482							
		1951 1952	2 1	4930 10430	5.5 4.7	265 489		-					
		1953 1955	1 1	9000 8600	4.5 5.9	405 503							
		1957 1958	1	10300 8840	5.3 5.0	542 446							
	HOLSTE IN	1950 1951	2 5	10970 11530	3.8 3.6	411 415							
		1952 1953	2	12475 10543	3.2 3.5	395 360		1	10400	344			
		1954 1955	3	8607 11265	3.5 3.5	304 389		•	10400	344			
		1956 1957	4 3	13525 13703	3.5 3.3	462 447		1	13100 11670	432 398	1 1	11565 14497	386 479
		1958	ĭ	9960	3.3	330		•	11010	370	•	14471	417
	ALL BREEDS	1950 1951	4 7	10020 9644	4.6 4.2	446 372							
		1952 1953	3 5	11793 10234	3•7 3•7	426 369		1	10400	344			
		1954 1955	3 5	8607 10732	3.5 4.0	304 412							
		1956 1957	iş iş	13525 12853	3•5 3•8	462 471		1	13100 11670	432 398	1	11565 14497	386 479
		1958	2	9400	4.2	388							
006	GUERNSEY	1950 1951	14 5	5900 7284	5.4 4.8	318 355							
		1952 1953	3 5	8880 8062	5.0 5.2	444 423		1	9320	473			
		1954 1955	7 10	6981 7314	4.9 5.1	343 369							
		1956 1957	19 8	7473 8919	5.1 5.2	379 457		5 4	8996 9468	405 456	3 2	8778 9407	367 465
		1958 1959	8	8093 9440	5.4 4.9	433 465		3 3	8973 8603	409 366	4 3	8546 9752	414 427
	HOLSTEIN	1947 1949	1	12970	4.2 3.3	545 442							
		1950	3 13	13390	3.5	389 434		2 1	14230 14420	484 509			
		1951 1952	16 34	12116	3.6 3.6	457		5	11842	415		10700	707
		1953 1954	31 33	12885 12547	3.6 3.7	461 459		7 12	12093 10871	427 429	2	10388	397 388
		1955 1956	23 21	12986 14047	3.7 3.7	475 524		11 10	12361	459 486	6	10896 12940	392 487
		1957 1958	13	12844 14728	3.7 3.8	473 551		7 5	12926 12504	475 460	7	12599 13050	467 474
		1959 1960	8 1	12181 12390	3.5 3.1	429 386		8	12113 13300	445 440	5 1	12036 12917	435 434

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	0001.6		Directly of Tex	01 11	(CSIICII I	1110					
STUD	8REED	FRESHENING YEAR	RECORDS MILK	TEST PCT.	1 A 4	305-DAY CONT RECORDS NO.		FAT LB.	YEAKLY I RECURUS NO.		FAT LB.
	JERSEY	1951	6 7555	5.7	427						
	JENJET	1952	14 7776	5.5	428						
		1953	13 8669	5.7	487						
		1954	16 7529	5.7	421						
		1955	10 7619	5.7	433						
		1956	6 7820	5.3	413						
		1957	4 9128	5.1	460						
		1958	2 10110	5.4	551						
	ALL BREEDS	1947	1 12970	4.2	545						
		1949	3 13390	3.3	442						
		1950	17 9969	3.9	372	2		484			
		1951	27 10207	4.3	418	1		509			
		1952	51 11102		448	5	11842	415			107
		1953	49 11275	4.3	464	. 8	11746	433	2	10388	397
		1954 1955	56 10418	4.4	434	12	10871	429	3	10722	388
		1956	43 10419	4.4	441	11	12361	459	6	10896	392
		1957	46 10519 25 10993	4.5 4.4	450	15 11	11497 11668	459 468	12	11899 11890	457 467
		1958	16 10833		466 492	8	11180	441	9	11048	447
		1959	11 11434		439	11	11155	423	ò	11179	432
		1960	1 12390		386	'i	13300	440	ĭ	12917	434
007	GUERNSEY	1950	3 7140	4.5	323						
001	JOERHOET	1951	11 6483		303						
		1952	7 7570		365						
		1953	7 7333		356						
		1954	2 5965	5.1	303						
		1955	5 6752	4.8	317	1	4200	273	1	7706	336
		1956	2 7090	5.1	357						
	HOLSTEIN	1950	2 9230	3.3	299						
		1951	3 12983		439						
		1952	3 10580		381						
		1953	6 9723		344						
		1954	2 10270	3.7	375						
	ALL BREEDS	1950	5 7976	4.0	313						
		1951	14 7876	4.4	333						
		1952	10 8473	4.4	369						
		1953	13 8436	4.2	350						
		1954	4 8118	4 - 4	339						
		1955 1956	5 6752 2 7090	4.8 5.1	317 357	1	4200	273	1	7706	336
			2 1070	3.1	231						
908	GUERNSEY	1947	8 9716	4.8	462						
		1948	4 8923	4.7	415						
		1949	12 9766	4 - 6	452	2	0000	271.			
		1950 1951	13 9872 15 9235	4.5 4.5	444 416	2 3	8050 7947	374 371			
		1952	23 8352		382	2	8495	374			
		1953	32 7623		356	4	9440	425			
		1954	30 7962		374	6	8497	417	2	7816	379
		1955	16 8086		388	5	8980	456	3	9370	421
		1956	16 8690		393	3	8387	416	3	8804	420
		1957	10 8839	4.2	373	2	9140	428	3	8128	397
		1958	14 8390		374	5	9496	432	Ł,	9200	428
		1959	1 8910	4.1	369						
	HOLSTEIN	1950	4 10500	3.9	413						
		1951	6 10522	4.1	430						
		1952	20 12008	3.8	460						
		1953	41 12258	3.7	449	1	13680	500			
		1954	36 11782		435	1	14620	531			
		1955	21 11028		4 C 8						
		1956	16 12243		448	į.	13740	520			
		1957	10 12508		454	3	13583	505		12524	466
		1958 1959	10 11800 5 12214		414 457	5 3	12646 9817	468 392	5	11641 ช922	435 349
					731	3	7011	312	2	3722	247
	ALL BREEOS	1947	8 9716		462						
		1948	4 8923		415						
		1949	12 9766 17 10020		452	2	BOLO	371.			
		1950 1951	17 10020 21 9603		437 420	2 3		374 371			
		1952	43 10052		418	2	8495	374			
		1953	73 10226		408	5	10288	440			
		1954	66 10046			7	9371	433	2	7816	379
		1955	37 9756		399	5	8980	456	3	9370	421
		1956	32 10466		420	4	9725	442	3	8804	420
		1957	20 10674	3.9	413	5	11806	474	5	9886	424
		1958	24 9811		390	10	11071	450	9	10556	432
		1959	6 11663	3.8	442	3	9817	392	2	8922	349

TABLE 10.--AVERAGE OF THE RECORDS OF OAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUO, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT	EMPORARY	AV.	YEARLY H	ERD AV	ERAGE
STUD	BREEO	FRESHENING	RECCROS	MILK	TEST	FAT	RECORDS		FAT	RECORUS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NO.	LB.	LB.	NO.	LB.	LB.
009	HOLSTEIN	1951	1	11150	3.3	366						
		1952	3	8947	3.7	332						
		1953	2	8170	3.8	302						
		1954	2	B695	4.1	346						
		1955	2	9815	3.6	346						
		1956	2	10165	3.7	364						
	ALL BREEOS	1951	1	11150	3.3	366						
		1952	3	B947	3.7	332						
		1953	2	B 170	3.8	302						
		1954	2	B695	4 - 1	346						
		1955	2	9815	3.6	346						
		1956	2	10165	3.7	364						
010	GUERNSEY	1952	1	9710	4.4	431						
010	HOLSTEIN	1951	1	13510	3.6	488						
		1952	1	14330	3.5	501						
		1953	1	14410	3.5	509						
		1954	1	16130	3.3	539						
	ALL BREEDS	1951	1	13510	3.6	488						
		1952	2	12020	4.0	466						
		1953	1	14410	3.5	509						
		1954	1	16130	3.3	539						

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT	MPORARY	AV.	YÉAKLY H	LRD AV	ERAGE
STUD	BREEO	FRESHENING	RECOROS	MILK	TEST	FAI	RECORDS	MILK	FAT	RECORDS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NO.	LB.	LB.	NO.	LB.	LB.
003	JERSEY	1950	1	76B0	5.2	401						
		1951	2	8270	5.6	465	1	8230	402			
		1952	2	B475	6.1	513						
		1953	3	8667	5.5	480	1	10610	488			
		1954	4	8378	5.1	426	2	8775	461	1	9069	470
		1955	1	7B30	5.4	422						
		1956	2	7520	4.7	360	2	8680	429	1	7379	343
		1957	1	7450	5.1	378	1	B950	462			
		1959	1	8250	4.4	363	1	5320	263	1	5624	283
	ALL BREEOS	1950	1	7680	5.2	4C1						
		1951	2	8270	5.6	465	1	8230	402			
		1952	2	8475	6.1	513						
		1953	3	8667	5.5	480	1	10610	488			
		1954	Ц	8378	5.1	426	2	8775	461	1	9069	470
		1955	1	7B30	5.4	422						
		1956	2	7520	4.7	360	2	868C	429	1	73/9	343
		1957	1	7450	5.1	378	1	8950	462			
		1959	1	B250	4.4	363	Ţ	5320	263	1	5624	283

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BRLED, BY YEAR OF FRESHENING

		·										
STUD	BKEED	FRESHENING YEAR	RECOROS NO.	MILK LB.	TEST PCT.	FAT L8.	305-DAY CONTE RECORDS NO.	MPORARY MILK LB.	AV. FAT LB.	YEARLY F RECORDS NO.	MILK LB.	FAT LB.
001	AYRSHIRE	1948 1949 1950 1951 1952 1953	3 9 14 15 8 13	8750 8620 7794 6704 6458 7636 7486	4.3 4.5 4.3 4.2 4.2 4.2	373 377 330 279 277 323 319	2 5	7010 8102	280 308	l 5	7292 7641	306 295
		1955 1956 1957 1958 1959 1960	28 34 17 8 4	8561 8788 9306 8025 9848 7688	4.3 4.2 4.1 4.1 4.0 3.6	37 I 369 382 32B 39 I 276	2 3 4 5 4 2	8350 8953 8755 8640 10533 7685	349 371 360 353 427 298	2 3 4 5 3 1	9549 9719 8134 9463 9160 5537	390 401 326 391 364 228
	GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	10 28 46 87 78 75 49 41 26 11	7117 6698 6804 6855 6898 7582 8025 7917 8125 7926 7480 6010	4.9 4.9 5.0 5.0 4.9 4.8 4.8 4.7 4.7 4.7	344 323 342 339 336 365 385 380 378 373 352 273	12 22 31 29 24 20 13 6	8713 8442 8106 8401 8846 8647 8372 9118 7509 7100	378 372 361 376 390 404 383 424 354 346	22 23 23 22 13 2 10	7969 8328 8452 8785 8779 9025 7917 7859	368 372 377 408 398 443 373 382
	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 18 38 73 107 163 215 229 232 221 162 163 15	9650 11107 10596 11041 10917 10667 11383 11425 10976 10987 11281 11557 12593	4.1 3.7 3.7 3.6 3.7 3.6 3.6 3.6 3.6 3.6	394 408 392 403 399 395 416 396 396 407 407	1 6 7 24 43 52 58 69 94 155	1164C 1279C 11526 11662 11651 12053 11248 11387 11421 11041	412 492 448 442 440 457 431 427 425 408	17 33 54 59 67 86 127	11381 11074 11004 10774 10493 11172 11121 10801	435 422 416 416 393 422 414
	JERSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	8 26 25 39 39 57 57 42 30 20 27 17	6524 7427 6315 6635 6909 6764 6814 7058 6855 6810 7416 5978 5820	5.3 5.3 5.3 5.3 5.4 5.4 5.4 5.4 5.4	343 389 332 353 367 355 363 376 376 363 378 310 307	3 8 3 1 1 2 1 1 1 4 12 15 2	6317 7263 7200 6470 5650 8350 6850 7780 7784 7023 6586 6195	339 385 377 390 313 447 293 416 362 365 329 305	2 1 4 12 14 1	7184 6595 7251 7429 6885 7129	371 373 340 389 348 353
	ALL BREEDS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	12 63 105 173 241 311 362 348 337 284 208 195 22	7341 8600 8163 8545 8654 8880 9715 10188 10025 10330 10477 10605 10786	4.9 4.5 4.4 4.3 4.2 4.1 4.0 3.8 3.9 3.8	355 386 351 368 370 395 403 390 390 390 390 397 379	3 8 4 19 29 58 79 82 90 117 183	6317 7263 8310 9883 9187 9497 10150 10919 10487 10677 10733 10491	339 385 386 415 390 391 409 432 422 414 416 399 383	40 61 81 85 88 105 154	9402 9757 10149 10173 9985 10622 10490 9811	395 392 403 413 388 417 405 381

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREECING ORGANIZATIONS-GROUPEO BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CO	NTER	ADUBY AD A	۸٧.	YEARLY H	EPD AVE	RAGE
STUD	BREED	FRESHENING YEAR	RECOROS M	MILK LB.	TEST PCT.	FAT LB.	RECOR NO.	20S		FAT LB.	RECORUS NO.	WILK	FAT LB.
001	HOLSTEIN	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	35 13 61 13 74 13 103 13 99 13 111 12 112 13 123 13	2953 3488 3607 3509 3468 3431 3289 3502 3503 3240 4023	3.9 3.8 3.7 3.7 3.7 3.7 3.6 3.6 3.7 3.8	500 507 508 499 497 493 482 488 493 495 525	2 5 6 9 10 10 29	24 1 55 1 59 1 91 1 00 1	12817 12709 12918 12687 13016 13292 12885 13344 14028	471 451 455 456 474 477 488 519 555	16 51 67 78 92 75 282 49	11906 12429 12676 12110 12516 13320 13556 13877	417 443 454 440 453 479 501
	ALL BREEDS	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	35 13 61 13 74 13 103 13 99 13 111 13 112 13 123 13	2953 3488 3607 3509 3468 3431 3289 3502 3503 3240 4023	3.9 3.8 3.7 3.7 3.7 3.6 3.6 3.6 3.8	500 507 508 499 497 493 482 488 493 495 525	2 5 6 9 10 10 29	24 1 55 1 59 1 71 1 00 1 03 1	12817 12709 12918 12687 13016 13292 12885 13344	471 451 455 456 474 477 488 519	16 51 67 78 92 75 282 49	11906 12429 12676 12110 12516 13320 13556 13877	4 17 4 4 3 4 5 4 4 4 0 4 5 3 4 7 9 5 6 1 5 1 4
002	HOLSTEIN	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	8 11 15 11 30 12 88 12 98 12 69 13 66 13 52 13	8909 1859 1260 2051 2185 2002 3426 3161 3939 3905	3.5 3.5 3.4 3.5 3.6 3.6 3.5 3.6 3.6	311 416 384 425 432 428 469 460 496 501	1 8 6 5 4 5	10 1 58 1 33 1 53 1 59 1 45 1	10910 12446 13146 13149 13530 14028 12474 13498	381 433 464 463 476 496 478 515 585	8 57 79 49 53 32 53	10296 12512 13166 12913 12983 14171 13553 14334	376 441 467 453 455 503 498 526
	ALL BREEOS	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	8 11 15 1 30 12 88 12 98 12 69 13 66 13 52 13	8909 1859 1260 2051 2185 2002 3426 3161 3939 3905 4850	3.5 3.4 3.5 3.6 3.6 3.5 3.6 3.6	311 416 384 425 432 428 469 460 496 501 532	1 5 6 5 4 5	10 58 63 63 59 45	10910 12446 13146 13149 13530 14028 12474 13498	381 433 464 463 476 476 478 515	8 57 79 49 53 32 53	10296 12512 13166 12913 12983 14171 13553 14334	376 441 467 453 455 503 498 526
003	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	73 1 123 1 103 1 103 1 104 1 104 1 104 1 104 1 104 1 104 1 104 1 104 1 105 1 1	1827 1404 1202 1287 1273 1252 0949 1641 2105 2843 0526 1370	3.5 3.6 3.7 3.6 3.6 3.6 3.6 3.6 3.6 3.6	418 412 408 411 412 410 395 416 432 474 381 433 343	2 5 6 7 6	24 51 61 73 63 51 37 20 6	13118 11820 12115 11662 11556 11431 11345 11325 11325 11325 12830 10283 12380 10010	440 418 435 418 419 412 415 411 416 449 467 464 351	51 35 33 15 5 2	11489 11617 11296 10699 12387 10039 11461	412 424 417 380 448 375 433
	JERSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	4 7 17 7 46 7 54 7 52 7 40 8 20 8	3960 7850 7658 7518 7998 7909 8035 7815 8193 9023	6.7 5.9 5.2 5.1 5.0 5.1 5.0 5.0 4.8 4.7	265 457 394 381 396 396 404 389 393 422	2	2 7 25 23 25 15 6 7	7075 7497 7263 7750 7942 8347 8673 8780 8446	409 395 367 377 393 409 417 437 421	11 22 23 15 6 3	7492 7480 7473 8008 8408 7270 8391	368 364 374 394 394 356 420
	ALL BREEOS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957	73 17 124 17 107 17 118 10 123 9 115 9 93 62	1827 1404 1143 1158 0752 9856 9563 9555 9479	3.5 3.6 3.7 3.7 3.9 4.2 4.4 4.5	418 412 407 413 410 399 395 405 414	6 8 7 7	24 51 63 80 88 74 62 35	13118 11820 12115 11517 11517 11201 10247 10228 9960 10155 10752	440 418 435 417 417 399 403 404 413	62 57 56 30	10780 10020 9726 9353 10216	404 401 399 387 419

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR CF FRESHENING

							305-DAY CONT	EMPORARY	Δ٧.	YEARLY H	HERD AVI	ERAGE
STUD	8REED	FRESHENING	RECORDS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECORDS	MILK	FAT
3.00	011220	YEAR	NO.	LB.	PCT.	LB.	NO.	L8.	LB.	NO.	LB.	LB.
		1959	14	9358	4.6	423	11	9161	429	11	8949	422
		1960	1	10550	3.3	343	1	10010	351			
004	GUERNSEY	1952	1	8350	5.1	430						
		1953	2	6025	5.5	312						
		1954	7	6311	5.1	322	5	7264	357	1	b022	407
		1955	9	6304	5.0	317	7	7769	379	7	7633	373
		1956	7	8863	5.0	445	6	8765	394	5	7310	351
		1957	8	8046	4.8	391	5	9208	456	3	8604	433
		1958	8	7861	5.0	396	6	9633	441	4 9	9859 9094	440
		1959	10	7432	4.8	356	4	8129	390	4	9094	427
	HOLSTEIN	1952	4 9	11813	3.4	401	3	14230	499		10165	770
		1953 1954	27	10637 10881	3.5 3.6	3 7 4 396	6 22	12120 11089	431 410	4 22	10164	379 402
		1955	33	10494	3.6	381	32	10889	385	32	10838	394
		1956	24	11092	3.6	402	20	11834	419	21	10477	387
		1957	18	10546	3.7	383	17	10820	386	18	10422	382
		1958	26	10691	3.5	38C	22	9956	380	15	10755	388
		1959	59	10961	3.6	390	58	10214	375	54	10592	380
		1960	3	10950	3.6	393	2	10290	384	2	9887	363
	ALL BREEDS	1952	5	11120	3.7	406	-3	14230	499			
		1953	11	9798	3.9	362	6	12120	431	4	10164	379
		1954	34	9941	3.9	381	27	10380	400	23	10574	402
		1955	42	9596	3.9	367	39	10329	384	39	10263	390
		1956	31	10589	3.9	411	26	11125	413	26	9868	380
		1957	26	9777	4.0	385	22	10454	4 02	21	10163	389
		1958	34	10025	3.9	384	28	9887	393	19	10566	399
		1959	69	10449	3.7	385	67	9934	377	63	10378	387
		1960	3	10950	3.6	393	2	10290	384	2	9887	363
075	JERSEY	1951	4	7800	5.3	414	-	0250	201			
		1952	7	7023	5.5	383	5	8250 8683	396 437	6	8340	445
		1953 1954	12 19	7866 7347	5.4 5.4	425 396	13	7809	392	9	7652	386
		1955	22	7668	5.4	410	14	7852	409	10	7443	386
		1956	38	7490	5.1	379	18	8169	420	12	7909	401
		1957	28	7234	5.2	377	16	7724	397	13	7968	412
		1958	24	8252	5.2	425	6	7842	390	5	7861	398
		1959	11	8055	5.4	429	5	9502	472	6	8666	435
		1960	2	7760	5.0	391	1	9670	398	1	10355	437
	ALL BREEDS	1951	4	7800	5.3	414						
		1952	7	7023	5.5	383	5	8250	396			
		1953	12	7866	5.4	425	6	8683	437	6	d340	445
		1954	19	7347	5.4	396	13	7809	392	9	7652	386
		1955	22	7668	5.4	410	14	7852	409	10	7443	386
		1956	38	7490	5.1	379	18	8169	420	12	7909	401
		1957	28 24	7234	5.2 5.2	377 425	16	7724 7842	397 390	13	7968 7861	412 398
		1958 1959	11	8252 8055	5.4	429	o 5	7842 9502	472	6	8666	435
		1960	2	7760	5.0	391	i	9670	398	1	10355	437
		1,00	2		2.0	٥,١		, , , ,	3,0			

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-8AY 6 RECC NC	ORDS		AV. FAT LB.	YEARLY F RECORDS NO.		FAT LB.
001	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 16 59 70 62 42 62 29 40 36	6060 8168 7662 7553 7364 7105 7144 7859 7905 7213 7376	5.1 4.7 4.6 4.7 4.8 4.9 4.7 4.6 4.5 4.4	311 379 353 356 350 346 335 359 352 318 319		2 3 8 20 20 37 25 26 29	9035 8947 9386 8310 7827 8944 8945 8524 7767	367 422 430 372 357 385 385 367 339 335	1 12 22 18 15 18	7390 6615 8431 8014 7969 7566 7439	349 312 361 346 345 334 327
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	31 19 29 40 60 89 100 80 110 133 63 114 204 53	11088 11475 10473 11173 11173 11292 11652 12224 11288 11217 11091 10405 10549 11101 11303	3.9 3.7 3.8 3.7 3.7 3.8 3.6 3.7 3.6 3.6 3.6 3.5	428 427 401 411 418 441 440 415 409 403 391 301 393 390	1	2 4 9 23 31 64 50 95 126 58 88 198 52	13620 11408 12589 11340 11773 12068 11765 11163 10902 11157 10929 10759 11328	527 475 448 418 443 442 426 412 400 422 394 381 390	21 17 33 77 26 27 114 50	10953 11175 10640 10197 9829 10628 10842 11216	426 428 396 382 377 391 378 381
	JERSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	6 6 7 3 2 2 2 3 3 3 15 8	7705 6337 4340 6183 5530 6745 4525 5313 8033 7181 7503	5.2 5.4 5.5 5.4 5.4 5.2 5.2 5.0 5.2	399 334 234 335 308 358 234 276 400 369 376		10	7821 8148	383 374	5 8	803 I 753 I	369 375
B	KOWN SWISS	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 7 24 36 32 29 49 58 59 80 9	11370 13139 11377 12046 12611 11664 11884 10527 10227 10410 8603	3.9 3.8 3.9 4.0 4.0 4.0 4.0 4.0	442 498 443 483 506 465 470 420 405 416 332		1 2 1 8 6 28 7	15300 120,10 9440 9561 9367 9729 8640	595 490 426 397 384 388 341	2 15 9	9102 9786 10555	362 399 405
	ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	31 19 29 48 89 178 213 177 183 246 153 216 335 78	11088 11475 10473 10637 10541 10046 10460 10055 10296 10200 9869 9936 10343 10199	3.9 3.7 3.8 3.9 4.0 4.1 4.1 4.2 4.0 4.0 3.9 3.8 3.7	428 427 401 408 411 405 416 403 398 394 383 389 375	1	35 74 70	13620 11408 12589 11155 11631 11776 10778 10583 10452 10392 10330 10212 10419	527 475 448 414 445 442 410 402 397 409 388 377 378	18	10953 10965 9567 9805 9087 9679 10257 10421	426 423 374 377 364 375 375
002	GUERNSEY	1953 1954 1955 1956 1957 1958 1959	5 15 48 24 22 26	6336 7798 8177 7661 7799 8166 8941 9987	4.4 4.5 4.7 4.5 4.4 4.2 4.2	276 346 380 346 341 342 376 419		2 2 13 46 22 22 25 3	6770 7430 7916 8293 8082 7921 8389 8667	327 346 382 372 359 347 370 384	3 22 20 22 23	9614 8152 7639 7907 8133 7695	502 379 347 348 360 328
	ALL BREEDS	1953 1954 1955 1956 1957 1958 1959	5 15 48 24 22 26 3	6336 7798 8177 7661 7799 8166 8941 9987	4.4 4.5 4.7 4.5 4.4 4.2 4.2	276 346 380 346 341 342 376 419		2 13 46 22 22 25 3	6770 7430 7916 8293 8082 7921 8389 8667	327 346 382 372 359 347 370 384	3 22 20 22 23 1	9614 8152 7639 7907 8133 7695	502 379 347 348 360 328

104 TABLE 10.--AVERAGE OF THE RECORDS OF OAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING UKGANIZATIONS--GROUPED BY STUO, BY BREED, BY YEAR OF FRESHENING

							705 0AV CCNT			454044 1	500 AV	-0.405
STUD	BREEO	FRESHENING	RECOROS	MILK	TEST	FAT	305-0AY CENTE			YEARLY H		
2100	BKEEU	YEAR	NO.	18.	PCT.	LB.	RECORUS NO.	MILK LB.	FAT	RECURUS NO.	MILK	FAT
		TEAK	NU.	Lo.	PCI.	LD.	NU.	LB.	LB.	NU.	LB.	LB.
003	GUERNSEY	1952	3	8713	5.0	433						
003	OULKNOET	1953	5	9198	5.0	456						
		1954	i	9420	4.7	442						
		1956	2	7660		352						
			2		4.6							
		1957	2	7575	4.9	369						
	HOLSTEIN	1951	3	11847	3.6	425	2	13315	466			
	1102312111	1952	4	10615	3.5	379	î	15170	525			
		1953	2	8705	3.5	305	· '	13110	323			
		1954	2	15120	3.7	557	1	12960	470			
		1955	2	13890	3.6	508	i					
			1					11440	432		11070	700
		1957	'	10730	3.6	386	1	11000	403	'	11260	398
	JERSEY	1951	7	6590	5.0	331						
	JE110E1	1952	7	6627	5.3	347						
		1953	2	5620	5.8	324						
		1959	3	7583	5.3	400	2	7960	333			
		1737	,	1303	3.3	400	2	1700	333			
8	ROWN SWISS	1951	4	11185	3.9	435						
_		1952	4	10355	4.1	423						
		1953	i,	10723	4.1	433						
		1954	ī	13850	3.9	538						
		1956	i	11840	3.6	431						
		1957	2	10140	3.8	384						
		1958	2	9055	4.0	361						
	ALL BREEOS	1951	14	9029	4.4	381	2	13315	466			
		1952	18	8689	4.6	385	ī	15170	525			
		1953	13	9041	4.6	406	•	13.70	323			
		1954		13378	4.0	523	1	12960	470			
		1955	2	13890	3.6	508	i	11446	432			
		1956	3	9053	4.3	378	•	11440	432			
		1957	5	9232	4.2	378	1	11000	403	,	11260	398
							•	11000	403	'	11200	240
		1958	2	9055	4.0	361	2	7960	227			
		1959	3	7583	5.3	400	2	1460	333			
006	HOLSTEIN	1953	1	12630	3.8	475						
•••	***************************************	1955	7	10904	3.5	377	7	11117	398	5	11739	415
		1956	24	11426	3.5	403	19	11956	432	7	13132	468
		1957	38	12381	3.6	437	34	12361	446	25	12256	442
		1958	63	12965	3.6	462	61	12481	448	4/	12109	433
			47				46			36	12626	
		1959		12801	3.7	472		12341	454			460
		1960	5	13008	3.7	478	4	12755	467	3	12880	471
	ALL BREEOS	1953	1	12630	3.8	475						
	The bile of	1955	7	10904	3.5	377	7	11117	398	5	11739	415
		1956	24	11426	3.5	403	19	11956	432	7	13132	468
		1957	38	12381	3.6	437	34	12361	446	25	12256	442
			63				61	12481		47	12109	433
		1958	03 47	12965	3.6 3.7	462	46	12341	448 454	36	12626	460
		1959		12801		4/2	40					471
		1960	5	13008	3.7	478	4	12755	467	5	12880	411

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONTI	EMPORARY	Δ٧.	YEARLY	HERD AV	FRAGE
STUD	BREEO	FRESHENING	RECOROS	MILK	TEST	FAT	RECOROS	MILK	FAT	RECORDS	MILK	FAT
	51125	YEAR	NC.	LB.	PCT.	LB.	NO.	L8.	LB.	NO.	LB.	LB.
001	GUERNSEY	1950	12	7839	4.9	383	5	8512	391			
		1951	22	7649	4.7	357	6	9310	394			
		1952	39	7259	4.8	343	16	6063	339			
		1953	61	7525	4.6	349	44	8305	347	26	84B2	341
		1954	80	7498	4.6	345	64	8787	370	47	8223	346
		1955	64	7967	4.8	381	50	8716	3B6	36	8414	372
		1956	48	8058	4.8	382	33	9631	426	25	9286	397
		1957	47	8516	4.8	409	31	9625	409	22	0861	395
		1958	49	8498	4.7	400	28	8421	373	22	8853	391
		1959	36	7714			30	8039	360	31	8284	375
					4.7	361	5	95B2		3	8291	392
		1960	6	8345	4.7	388	э	4382	410	3	0241	342
	HOLSTEIN	1949	.1	5290	3.9	20B	1	12220	435			
		1950	11	11106	3.7	411						
		1951	75	11223	3.6	404	43	10899	400			
		1952	160	10894	3.6	394	110	10734	391	1.70	10:07	,,,,
		1953	303	10760	3.6	387	2 66	10550	381	162	10493	377
		1954	400	11220	3.6	406	368	10930	399	309	10365	376
		1955	498	11128	3.7	407	466	11200	410	356	10938	402
		1956	498	11551	3.6	418	460	11729	428	305	10865	403
		1957	516	11374	3.7	413	400	11934	435	39 8	11408	420
		1958	472	11608	3.6	418	337	11794	434	30 u	11388	42 I
		1959	591	11983	3.6	434	5 69 c	11657	429	488	11300	420
		1960	159	12414	3.6	452	152	12330	452	92	11676	426
	JERSEY	1950	19	7467	5.2	381	14	6930	372			
		1951	74	7161	5.3	374	19	7777	388			
		1952	134	6983	5.3	364	37	7746	392			
		1953	224	6766	5.3	353	88	6961	358	55	7364	372
		1954	202	7138	5.2	368	B5	7083	362	69	7229	371
		1955	185	7181	5.2	372	74	7453	381	63	7503	384
		1956	136	743B	5.1	378	53	7755	394	35	7687	395
		1957	94	7530	5.1	380	39	8207	419	27	7692	403
		1958	103	7850	5.1	397	36	B313	423	26	7632	384
		1959	202	7990	5.0	401	157	8052	406	134	8044	4 12
		1960	68	8105	5.1	414	51	8249	407	36	8209	421
В	ROWN SWISS	1954	10	9872	4.4	427	5	8722	361	3	9167	363
		1955	20	8791	4.3	376	8	8555	340	4	8524	333
		1956	16	9180	4.2	388	5	9098	355	4	B611	339
		1957	10	9554	4.2	401	5	9118	370	4	8846	358
		1958	29	10398	4.0	420	10	11363	450	10	10872	433
		1959	30	11265	4.1	464	26	11685	472	25	11319	452
		1960	14	10444	4 - 0	408	14	9741	3B6	13	10925	434
	ALL BREEOS	1949	1	5290	3.9	208						
		1950	42	8526	4.7	389	10	8250	3B8			
		1951	173	9005	4.5	385	88	9887	397			
		1952	333	8894	4.4	376	163	9793	386			
		1953	588	8903	4.3	370	398	9508	372	243	9569	372
		1954	692	9579	4.2	388	522	10020	389	42b	9616	372
		1955	767	9051	4.1	395	598	10493	404	459	10248	397
		1956	698	10455	4.0	407	571	11216	424	369	10432	401
		1957	667	10604	3.9	40B	555	11431	432	451	11039	417
		1958	653	10728	3.9	414	411	11249	430	358	10945	417
		1959	859	10840	4.0	424	782	10795	423	658	10594	418
		1960	247	11017	4.1	437	222	11167	436	144	10671	425
		.,00	271		7. 1	731	222		730	174	.0011	723

STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK	TEST PCT.	FAT L8.	305-DAY CONT RECORDS NO.		AV. FAT LB.	YEARLY H RECORDS NO.		FAT L8.
001	GUERNSEY	1951 1952 1953 1954 1955 1956 1957	5 10 16 13 11 4 3	7240 7402 7373 7134 7005 7218 9647 9545	4.8 4.7 4.6 4.8 4.8 4.7	347 350 347 326 335 348 444	1	1009C 8340	526 404	1	9723	427
	HOLSTEIN	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 7 23 20 31 32 50 34 11 8	9680 12011 12321 13508 12496 11782 12628 13303 12957 12879 12967	3.4 3.6 3.5 3.5 3.6 3.6 3.7 3.8 3.5	324 430 421 471 433 424 456 483 492 446 505	2 3 7 4 4 3 8 7	11935 12627 12689 12770 13778 13623 13043 11605 11979	388 437 454 435 491 482 479 411	2 3 1 3 4 2 6	9036 12938 13396 13480 13001 12126 10809 12524	336 480 509 490 459 431 394
	JERSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	14 12 13 29 24 14 11 15 14 7	7098 6777 7028 7052 6518 7031 7675 6581 8022 7946 7415	5.1 4.9 5.1 5.1 5.0 5.2 5.1 5.4 5.2 5.2 5.2	358 339 353 357 323 358 393 348 412 409 437	4 7 2	8793 7439 9185	436 369 498	1 6 2	6747 7058 7292	375 356 419
	ALL BREEDS	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	6 24 46 65 68 57 65 52 27 15	7958 8400 9756 9117 9361 9693 11457 11153 10146 10577 11957	4.5 4.5 4.2 4.2 4.2 4.0 4.2 4.6 4.3	347 367 386 390 374 391 438 442 446 429	2 3 7 4 5 8 15	11935 12627 12689 12770 13778 12916 10330 9661 11358	388 437 454 435 491 491 448 391 454	2 3 1 3 6 2 12 3	9036 12938 13396 13480 11412 12126 8933 9036	336 480 509 490 439 431 375 437
002	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 6 13 20 14 14 17 16 16	6040 6662 8225 7471 8041 8446 7309 7153 8224 8732	4.7 4.8 4.7 5.1 4.9 5.0 4.8 4.9 4.9	285 321 387 376 394 419 354 346 397 448	1 2 6 12	9440 8060 8528 8894	409 368 393 418	1 2 2 3	9450 7619 8421 9105	396 350 377 413
	HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 6 4 7 13 25 32 35 46 4	9505 11125 11380 11816 11992 11404 12012 12542 11756 12138 10990 14390	3.6 3.8 3.6 3.5 3.5 3.6 3.6 3.6 3.6 3.6	336 399 431 423 418 403 422 456 427 433 311	1 1 1 1 2 2	10220 9490 11010 11740 11020 10265 11580	385 355 394 441 436 349 434	1 1 1 1	10083 10922 10311 9756 10202 12524	350 414 366 351 362 472
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	15 2 24 46 59 67 104 98 80 48 33 17 16	7913 9350 7393 7660 7109 7401 7323 7305 7518 7669 7728 7870 7905 7541	5.3 5.2 5.3 5.3 5.2 5.2 5.2 5.2 5.3 5.2 5.1 5.1 5.0 5.3	419 480 390 404 374 385 379 382 394 400 395 403 392 398	1 1 7 10 12 11 6 8	7660 7290 8351 8403 8089 8445 7345 7608 7989 8124	396 372 444 427 417 432 370 395 393 417	2 5 5 3 3 2 6	6093 6939 7831 8687 7459 8126 8609 7292	310 351 401 454 356 329 417 419

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING CRGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONTE RECORDS NO.		AV. FAT LB.	YEARLY F RECORDS NO.	TERD AVI MILK LB.	ERAGE FAT LB-
BROWN SWISS	1956 1959 1960	2 3 2	10750 15730 9185	4.9 3.9 3.B	512 608 339	2	13340	533	ı	9243	364
ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	15 2 26 53 69 87 137 126 102 95 37 34	7913 9350 7555 8022 7317 7880 7787 8128 8762 9342 9581 8485 9093 9085	5.3 5.2 5.2 5.1 5.2 5.0 5.0 4.9 4.6 4.4 4.8 4.8	419 480 386 401 373 388 382 387 404 413 402 403 427 402	1 1 7 11 13 13 9 15 31	7660 7290 8351 8568 8197 8719 7992 8203 8833 8892	396 372 444 423 412 427 377 397 409	2 6 5 6 4 12 2	6093 7463 8346 9164 7895 8273 9051 9908	310 351 403 425 353 353 402 446
003 HOLSTEIN	1952 1953 1954 1955 1956 1957 1958 1959	33 36 55 71 79 157 218 179 23	11464 11021 11483 11106 11284 11337 12173 12176 12614	3-7 3-7 3-6 3-7 3-6 3-6 3-6 3-6	419 403 417 412 403 408 439 435	1 7 25 46 37 83 189 173 23	9510 12960 12894 12187 12419 12550 12596 12409 12533	322 464 474 450 461 462 459 449	2 21 43 31 74 153 141	14715 12393 12165 12163 12231 12535 12662 12591	520 454 448 456 448 455 459 467
JERSŁY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	16 36 60 54 55 57 39 30 22 6 2	6574 6625 6152 6919 6529 6547 6589 7553 7029 8163 4205 7417	5.2 5.1 5.2 5.3 5.1 5.0 5.1 5.3 5.2 5.0 4.8	345 342 313 355 346 333 330 384 366 416 207 360	1 3 4 1 1 2 3	9520 4297 5693 8490 9160 7100 3580 7107	405 219 294 423 423 364 181 353	1 1 1	5003 9581 8306 7096 8851	253 444 403 351 456
ALL BREEDS	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	16 36 60 87 91 112 110 109 179 224 181 26	6574 6625 6152 8643 8306 8971 9504 10257 10807 12066 12108 12015	5.2 5.2 5.1 4.6 4.7 4.4 4.2 4.0 3.8 3.7 3.6	345 342 313 380 368 374 383 398 402 439 433 448	2 10 29 47 38 83 193 175 26	9515 10361 11901 12108 12333 12550 12483 12308 11907	364 391 450 450 460 462 457 446 444	2 22 44 32 74 153 143 20	14715 12057 12106 12043 12231 12535 12584 12404	520 445 448 454 448 455 457
004 GUERNSEY	1955 1956 1957	1 2 2	6790 8700 5915	4.7 4.7 4.9	320 413 284						
HOLSTEIN	1949 1951	2 1	7065 11270	3.4 3.5	238 391						
JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955	104 3 14 20 13 12 4 7 3 5	6824 9200 7904 7568 6916 6501 8200 8544 7290 8410	5.4 5.2 5.3 5.3 5.0 5.0 4.8 5.1	369 477 418 400 366 328 407 413 367 393						
ALL BREEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	104 3 16 20 14 12 4 7 4 7	6824 9200 7799 7568 7227 6501 8200 8544 7165 8493 5915	5.4 5.2 5.1 5.3 5.1 5.0 5.0 4.8 5.0 4.7	369 477 396 400 368 328 407 413 356 398 284						

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TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS-GROUPED BY STUO, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONTE			YEARLY H		
STUD	BREEO	FRESHENING YEAR	RECOROS NO.	MILK LB.	PCT.	FAT LB.	RECOROS NO.	MILK LB.	FAT LB.	RECORUS NO.	MILK LB.	FAT LB.
005	GUERNSEY	1950 1951	1	6340 8190	4.4 4.1	279 337						
	HOLSTEIN	1951 1952	4 1	11675 7910	3.6 3.1	410 249						
	JERSEY	1950	ų	6163	5.2	322	1	8130	410			
		1951	1	9370	5.3	496	1	7620	392			
		1952	8	813B	4.9	403	2	7350	374			
		1953	5	7276	4.8	350	1	7220	361	ı	6649	341
		1954	14	8335	5.2	427	3	7760	397	2	6475	330
		1955	11	7 174	5.2	371	3	6593	346			
		1956	8	8013	5.0	395	3	7620	394			
		1957	5	8410	5.0	416	3	7847	410	3	7372	341
	ALL BREEOS	1950	5	6 198	5.0	313	1	B130	410			
		1951	6	10710	4.0	4 12	1	7620	392			
		1952	9	8112	4.7	386	2	7350	374			
		1953	5	7276	4.8	350	1	7220	361	1	6649	341
		1954	14	8335	5.2	427	3	7760	397	2	6475	330
		1955	11	7 17 4	5.2	371	3	6593	346			
		1956	В	8013	5.0	395	3	7620	394			
		1957	5	8410	5.0	416	3	7847	4 10	3	7372	341

TABLE 10.--AVERAGE OF THE R.COROS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305 044 50475			WE 401 W 1	1500 444	ED 4 6 E
STUO	DOCCO	FRESHENING	0500000	14.1.1.1	TECT		305-DAY CONTE			YEARLY H		FAT.
2100	BREED	YEAR	RECOROS NO.	MILK LB.	TEST PCT.	FAT LB.	RECOROS NO.	MILK LB.	FAT LB.	RECORUS NO.	MILK LB.	LB.
		ICAN	140 •	LD.	FCI.	LD.	140 •	LD.	LD•	140.	LD.	LD.
001	GUERNSEY	1949	2	7940	4.8	378						
		1950	1	4890	5.1	251						
		1951	2	7190	5.1	357						
		1952	3	7690	4.5	345						
		1953	ų	8225	4.6	376						
		1954	9	7383	4.5	334	1	6770	315	1	7717	363
		1955	6	7353	4.6	336	2	6760	349	i	8611	434
		1956	11	6654	4.7	311	2	8750	394	i	8676	425
		1957	ii	6309	4.6	290	ī	10200	500	i	8567	415
		1958	5	5796	4.5	268	•	10200	500	•	0501	415
		1959	2	7060	4.6	323	1	54 10	243	1	5472	259
		1960	1	7900	3.8	301	'	34 10	243	'	3412	237
		1700	•	1700	3.0	301						
	JERSEY	1949	6	7905	5.0	395	1	6450	379			
		1950	18	7269	4.9	351	2	8650	434			
		1951	23	6709	5.0	335	1	8770	421			
		1952	30	6830	5.0	344	i	9470	533			
		1953	30	6931	5.0	342	3	8417	452	1	7968	400
		1954	26	7328	4.7	348	ĭ	8010	416	i	6289	328
		1955	39	6037	4.8	290	•	00.0		•	020.	320
		1956	20	6414	4.7	303	2	6970	378	1	7379	395
		1957	12	7013	4.8	339	ī	6250	310	•		3.3
		1958	8	7205	4.8	342	i	6140	323	2	8606	385
		1959	4	7093	4.7	332	2	7635	357	ĩ	10867	462
		1960	i	9790	4.7	463	_			i	8949	411
	ALL BREEOS	1949	0	7011	- 0	701	1	41.50	770			
	ALL BREEUS	1950	8	7914	5.0	391		6450	379			
			19	7144	4.9	346	2	8650	434			
		1951	25	6748	5.0	337	1	8770	421			
		1952	33	6908	5.0	344	1	9470	5 33		7010	1.00
		1953	34	7083	4.9	346	3	8417	452	1	7968	400
		1954	35	7342	4 - 7	344	2	7390	366	2	7003	346
		1955	45	6212	4.8	296	2	6760	349	1	8611	434
		1956	31	6499	4.7	306	4	7860	386	2	8028	410
		1957	23	6677	4.7	315	2	8225	405	1	8567	4 15
		1958	13	6663	4.7	314	1	6140	323	2	8606	385
		1959	- 6	7082	4.6	329	3	6893	319	2	8170	361
		1960	2	8845	4.3	382				ł	8949	411
002	JERSEY	1951	2	5595	5.1	221						
		1952	2	5500	5.0	272						
		1953	2	5550	4.9	272						
		1954	3	5873	4.8	277						
		1956	2	9035	4.9	437						
		1957	3	8393	5.0	4 1 4	1	8680	400			
		1958	1	8670	5.0	431						
	ALL BREEOS	1951	2	5595	5.1	281						
	ALE DICEOS	1952	2	5500	5.0	272						
		1953	2	5550	4.9	272						
		1954	3	5873	4.8	277						
		1956	2	9035	4.9	437						
		1957	3	8393	5.0	414	1	8680	400			
		1958	3 1	8670	5.0	414		0000	400			
		1730	'	0010	3.0	451						

STUD	BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONT RECUROS NO.		AV. FAT LB.	YEARLY I RECURDS ND.		FAT LB.
100	GUERNSEY	1953	3	5030	4.9	247						
		1954	3	6447	4.8	313	1	7290	327			
		1955	1	5930	5.4	322	1	8260	373			
		1956	1	5460	4.6	251						
		1959	1	10000	4.8	483	1	9820	476			
		1960	1	6150	4.6	282	1	10140	487			
	ALL BREEOS	1953	3	5030	4.9	247						
		1954	3	6447	4.8	313	1	7290	327			
		1955	1	5930	5.4	322	1	B260	373			
		1956	1	5460	4.6	251						
		1959 1960	1	10000 6150	4.8	483 282	1	9820 10140	476 487			
		1700	'	0130	4.0	202	'	10140	401			
002	GUERNSEY	1954	2	6990	4.7	328	1	6610	328	1	7390	338
		1955 1956	3	6280 7 469	4.8 4.8	294 359	2 5	6490 7914	313 408	2 2	7804 7804	37 I 37 I
		1957	14	7703	5.3	411	4	9200	448	1	7314	316
		1958	7	B370	4.9	411	4	830B	402	•	1314	310
		1959	7	8909	4.6	410	7	7704	366	2	8775	407
		1960	1	9980	5.1	505	1	7040	326			
	HOLSTEIN	1956	3	10390	3.6	371	3	11737	408			
	1102312114	1957	4	14265	3.9	550	3	13510	475	2	11309	427
		1958	2	14640	3.8	547	1	14720	488	1	12709	465
		1959	8	12113	3.4	413	8	11111	396	8	10878	399
		1960	2	13070	3.7	475	2	9595	364	2	9418	356
	JERSEY	1950	6	7253	5.0	360	1	6630	312			
	oenoe.	1951	18	6587	5.1	331	3	5960	283			
		1952	39	6937	5.1	350	10	6253	3 1 1			
		1953	24	6964	5.0	349	13	6162	315	10	6159	314
		1954	22	7619	4.9	372	5	7664	377	2	5406	266
		1955	43	6404	5.0	316	25	5976	303			
		1956	61	6899	4 8	334	44	7179	350			
		1957	41	6957	4.7	327	26	7426	35B	22	6119	296
		1958 1959	40 49	6947 6324	5.1 5.1	349 319	20 33	7757 7055	397	8 13	7654 BU15	378
		1960	4	821B	4.9	396	1	4610	341 231	13	8219	375 398
			_									
	BROWN SWISS	1957 1958	1	11900 12120	4.1 4.1	492 496						
		1959	i	10980	4.1	452						
		1050	,	7057	<i>5</i> 0	7.0	,	4470	710			
	ALL BREEDS	1950 1951	6 18	7253 6587	5.0 5.1	360 331	1 3	6630 5960	312 283			
		1952	39	6937	5.1	350	10	6253	311			
		1953	24	6964	5.0	349	13	6162	3 15	10	6159	314
		1954	24	7566	4.9	369	6	74B8	369	3	6057	290
		1955	46	6396	5.0	314	27	6014	304	2	7804	371
		1956	73	7112	4.8	338	52	7513	359	2	7804	371
		1957	50	7700	4.7	355	33	8194	379	25	6582	308
		1958 1959	50 65	7557 7387	5.0 4.B	369 342	25 48	8124 7826	402 354	9 23	8216 9077	388 386
		1960	7	9856	4.5	434	40	7710	321	3	9018	370
										_		
003	JERSEY	1951 1952	1 3	8620 5803	4.8 4.8	410 25B						
		1953	3	5770		280						
		1954	4	8023	4.8	385						
		1955	3	7493	4.8	357	1	4060	215			
		1956 1957	3 5	6687 5842	5.1	350 294	2	6320	332			
		1958	2	5950	5.1 5.0	294	2	0320	332			
		1959	1	3790	4.6	175	1	5330	266	1	5733	294
	ALL BREEOS	1951	1	8620	4.8	410						
		1952	3	5803	4.8	258						
		1953	3	5770	5.1	280						
		1954	4	8023	4.8	385						
		1955	3	7493	4.8	357	1	4060	215			
		1956	3	6687	5.1	350	2	4700	770			
		195 7 1958	5 2	5842 5950	5.1 5.0	274 294	2	6320	332			
		1959	ī	3790	4.6	175	1	5330	266	1	5733	294
004	IEDCEV	1947	8			701						
004	JERSEY	1947	6	7249 6188	5.4 5.3	391 322						
		1949	6	6920	5.4	368						
		1950	9	6440	5.3	340						
		1951	11	6625	5.0	327						
		1952	35	7252	5.2		4	8135	416		0104	1, 0.7
		1953 1954	46 42	67B8	5.2	353	4	7975	442	2	8186	407
			7.									

							305-0AY CONT			YEARLY H		
STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK L8.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.	MILK L8.	FAT L8.
		1955	29	6299	5.4	344	7	7004	377	1	6224	277
		1956 1957	30 15	6882 6423	5.3 5.1	364 326	3 6	9450 7938	483 401	პ 1	6733 7815	332 382
		1958	15	6941	5.3	367	10	7997	423	•	1013	302
		1959	19	6323	5.1	322	15	6584	337	9	7009	350
		1960	3	5760	5.2	303	2	6245	310	2	7352	365
	ALL BREEDS	1947	8	7249	5-4	391						
		1948 1949	6	6188 6920	5.3 5.4	322 368						
		1950	9	6440	5.3	340						
		1951	11	6625	5.0	327	t.	0176	1.17			
		1952 1953	35 46	7252 6788	5.2 5.2	380 353	կ կ	8135 7975	416 442	2	8186	407
		1954	42	6550	5 • 2	341	7	7733	422	4	6960	363
		1955	29	6299	5.4	344	7	7004	377	1	6224	277
		1956 1957	30 15	6882 6423	5.3	364 326	3 6	9450 7938	483 401	3 1	6733 7815	332 382
		1958	15	6941	5.3	367	10	7997	423			
		1959 1960	19 3	6323 5760	5.1 5.2	322 303	15 2	6584 6245	337 310	9 2	7009 7352	350 365
0.06	15005V						_					
005	JERSEY	1951 1952	1	6350 4810	5.7 5.7	365 274						
		1953	5	4810	5.1	243						
		1954	4	6280	5.5	344	1	6.01.0	7 17			
		1955 1956	2	6300 4747	5.0 4.7	316 227	1 2	5840 6575	337 340			
		1957	3	4620	4.4	216	2	5970	298	1	4807	245
		1958	1	5740	4.6	265	1	6190	310	,	0700	1,00
		1959	1	7470	5 • 1	381	'	10170	441	1	8382	400
	ALL BREEDS	1951	1	6350	5.7	365						
		1952 1953	1 5	4810 4810	5.7 5.1	274 243						
		1954	4	6280	5.5	344						
		1955 1956	2	6300 4747	5.0	316	1 2	5840 6595	337 340			
		1957	3	4620	4.7	22 <i>1</i> 216	2	5970	298	1	4807	245
		1958	1	5740	4.6	265	1	6190	310			
		1959	1	7470	5.1	381	1	10170	441	1	8382	400
006	GUERNSEY	1948	1	9160	5.1	464		0.700	7.15			
		1949 1950	1	10280 7360	4.1 4.5	425 334	1	8320 7960	365 353			
		1951	2	6935	5.0	343	i	8350	353			
		1952	2	6475	5.3	340	,	71.00	717			
		1953 1954	3 2	7257 7000	4.2	305 298	1	7420 6280	316 284	1	7292	324
		1956	1	8530	4.1	346	ì	743C	330	1	6551	298
		1957 1959	1 2	7980 7270	4.0	321 309	1 2	7490 6120	332 266	1 2	6976 6802	317 303
	150.551						-			•	0002	505
	JERSEY	1952 1953	1 6	9160 5068	4.5 5.0	410 250						
		1954	6	6277	4.7	294						
		1956 1957	4 5	6740 6658	5.0	333 340	3	6533	327	1	7946	706
		1958	1	6400	5.1 5.0	320	3	6597	349	'	1940	395
	ALL BREEDS	1948	1	9160	5.1	464						
	ace oncess	1949	i	10280	4.1	425	1	8320	365			
		1950	1	7360	4.5	334	1	7960	353			
		1951 1952	2 3	6935 7370	5.0 5.0	343 363	1	8350	353			
		1953	9	5798	4.8	268	1	7420	316			
		1954 1956	8 5	6458 7098	4.6	295	1 4	6280	284	1	7292	324
		1957	6	6878	4.8 5.0	335 337	4	6758 6820	328 345	1 2	6551 7461	298 356
		1958	1	6400	5.0	320						
		1959	2	7270	4.2	309	2	6120	266	2	6802	303
007	GUERNSEY	1954 1956	1	5750 6300	4 • 5 4 • 7	258 294	1	8220	375			
	ALL BREEDS	1954 1956	1	5750 6300	4.5 4.7	258 294	1	8220	375			
008	JERSEY	1949	5	5268	4.9	254						
000	AEK3E1	1950	7	6220	5.1	254 314						
		1951	3	6080	5 • 2	318						
		1952 1953	2 2	8440 7505	5.5 5.6	456 412	1	6580 5380	330 280			
		1954	2	8590	5.4	458	i	7860	376	1	7826	373
		1955	1	7000	5.1	360						

STUD BREED FRESHENING RECORDS MILK TEST FAT RECORDS MILK FAT NO. LB. PCT. LB. NO. LB. LB. RECORDS MILK FAT NO. LB. PCT. LB. NO. LB. LB. LB. LB. NO. LB. LB. LB. LB. NO. LB. LB. LB. LB. NO. LB. LB. LB. LB. LB. NO. LB. LB. LB. LB. LB. LB. NO. LB. LB. LB. LB. LB. LB. LB. LB. LB. LB								701 01V CC	N. T.C.W	00000		951619 1	500 AV	-0.405
YEAR NO. LB. PCT. LB. NO. LB. LB. NO. LB. LB. LB. NO. LB. LB. LB. 1956	C*110	02550	ENCENENTAG	0550005	MILL	TCCT	CAT				AV.			
1956	2100	DKEEU							0.5					
ALL BREEOS 1949 5 5268 4.9 254 1950 7 6220 5.1 314 1951 3 6080 5.2 318 1952 2 8440 5.5 456 1 6580 330 1953 2 7505 5.6 412 1 5380 280 1954 2 8590 5.4 458 1 7860 376 1 7826 373 1955 1 7000 5.1 360 1955 1 7660 376 1 7826 373 1957 1 6840 5.5 379 1957 1 6840 5.5 379 1957 1 6840 5.5 379 1957 1 6840 5.5 379 1957 1 6840 5.5 379 1957 1 6840 5.5 379 1957 1 68480 5.2 341 1951 17 5772 5.3 304 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 1951 17 5772 5.3 304 1959 2 6395 4.9 311 1 5660 298 1 6246 330 1951 17 5772 5.3 304 1955 1959 2 6395 4.9 311 1 5660 298 1 6246 330 1951 17 5772 5.3 304 1959 2 6355 4.9 311 1 5660 298 1 6246 330 1955 1 772 5.3 304 1955 1 772 5.3 30								NU .		LD.	LB.	NU.	LB.	LB.
ALL BREEOS 1949 5 5268 4.9 254 1950 7 6220 5.1 314 1951 3 6080 5.2 318 1952 2 8440 5.5 456 1 6580 330 1953 2 7505 5.6 412 1 5380 280 1953 2 7505 5.6 412 1 5380 280 1955 1 7000 5.1 360 1956 1 5670 6.0 339 1957 1 6840 5.5 379 075 JERSEY 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330				•										
1950			1421	'	0040	2.2	214							
1951		ALL BREEDS	1949	5	5268	4.9	254							
1952			1950	7	6220	5.1	314							
1953			1951	3	6080	5.2	318							
1954 2 8590 5.4 458 1 7860 376 1 7826 373 1955 1 7000 5.1 360 1956 1 5670 6.0 339 1957 1 6840 5.5 379 075 JERSEY 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1955 8 5959 4.9 294 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1952 14 6648 5.2 341 1953 1955 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 1959 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198			1952	2	8440	5.5	456		1	6580	330			
1955			1953	2	7505	5.6	412		1	5380	280			
1956			1954	2	8590	5.4	458		1	7860	376	1	7826	373
1957			1955	1	7000	5.1	360							
075 JERSEY 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 311 1 5660 298 1 6246 330 1951 17 5772 5.3 304 1955 1955 1956 12 7186 5.3 381 1951 17 5772 5.3 304 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1955 14 6648 5.2 341 1955 117 5772 5.3 304 117 5772 5.3 304 117 577			1956	1	5670	6.0	339							
1950 12 7186 5-3 381 1951 17 5772 5-3 304 1952 14 6648 5-2 384 1953 9 5587 5-2 289 1 3790 198 1954 12 6553 5-1 336 1955 8 5959 4-9 294 1956 6 7810 4-9 380 1957 2 6250 4-9 307 1959 2 6395 4-9 311 1 5660 298 1 6246 330 ALL BRÉEOS 1949 1 5200 6-4 334 1951 17 5772 5-3 304 1952 14 6648 5-2 381 1953 9 5587 5-2 289 1 3790 198 1954 12 6553 5-1 336 1955 8 5959 4-9 294 1956 6 7810 4-9 380 1957 2 6250 4-9 307			1957	1	6840	5.5	379							
1950 12 7186 5-3 381 1951 17 5772 5-3 304 1952 14 6648 5-2 384 1953 9 5587 5-2 289 1 3790 198 1954 12 6553 5-1 336 1955 8 5959 4-9 294 1956 6 7810 4-9 380 1957 2 6250 4-9 307 1959 2 6395 4-9 311 1 5660 298 1 6246 330 ALL BRÉEOS 1949 1 5200 6-4 334 1951 17 5772 5-3 304 1952 14 6648 5-2 381 1953 9 5587 5-2 289 1 3790 198 1954 12 6553 5-1 336 1955 8 5959 4-9 294 1956 6 7810 4-9 380 1957 2 6250 4-9 307	075	JERSEY	1949	1	5200	6.4	334							
1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 380 1956 6 7810 4.9 380														
1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1957 2 6250 4.9 307 1959 1 5200 6.4 334 1951 17 5772 5.3 304 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380														
1953														
1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307									1	3790	198			
1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307				12										
1956 6 7810 4.9 380 1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307			1955		5959	4.9	294							
1957 2 6250 4.9 307 1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307														
1959 2 6395 4.9 311 1 5660 298 1 6246 330 ALL BREEOS 1949 1 5200 6.4 334 1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307														
1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307									1	5660	298	1	6246	330
1950 12 7186 5.3 381 1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307		ALL BREEDS	1949	1	5200	6-4	334							
1951 17 5772 5.3 304 1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307		ALE ONLEGG												
1952 14 6648 5.2 341 1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307														
1953 9 5587 5.2 289 1 3790 198 1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307														
1954 12 6553 5.1 336 1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307									1	3790	198			
1955 8 5959 4.9 294 1956 6 7810 4.9 380 1957 2 6250 4.9 307									•		. , ,			
1956 6 7810 4.9 380 1957 2 6250 4.9 307														
1957 2 6250 4.9 307														
									1	5660	298	I	6246	330

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRE. IN SERVICE IN ARTIFICIAL 8«EEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY Y. AR OF FRESHENING

							305-DAY CENT	MPORARY	AV.	YEAKLY F	IERD AV	ERAGE
STUD	8REED	FRESHENING	RECOROS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECORDS	MILK	FAT
		YEAR	NO.	LB.	PCT.	L8.	NO.	L8.	L8.	NO.	L8.	L8.
001	GUERNSEY	1953	5	8674	4.8	417						
		1954	4	7235	4.6	334				1	8077	395
		1955	4	6453	5.0	321						
		1956	14	6686	4.9	323	1	9140	449			
		1957	3	6697	5.2	349						
		1958	4	7413	4.9	357	1	7080	373			
		1959	1	4700	4.4	208	1	6570	319			
		1960	4	7633	4.8	363	3	8543	389	2	3984	374
	HOLSTEIN	1950	4	11820	4.0	456						
		1951	4	14250	3.6	510						
		1952	4	11783	3.5	416						
		1953	3	13033	3.1	409						
		1954	4	14248	3.2	448						
		1955	6	13278	3.5	467	2	9975	371	2	11532	429
		1957	4	13605	3.6	488	1	15090	562	1	12753	472
		1958	2	18315	3.5	636	i	13510	488	•		
		1959	11	10393	3.6	378	11	11174	396	3	11322	399
		1960	2	9085	3.9	360	2	10050	359	2	10170	366
							-	10030	33,	•		500
	JERSEY	1947	2	7020	5.4	366						
		1948	4	5493	5.3	289						
		1949	14	6678	5.1	3,37						
		1950	18	6964	5.3	367	2	8460	461			
		1951	29	6981	5.4	375	1	8910	462			
		1952	36	6562	5.5	359	1	7120	361			
		1953	28	6284	5.3	327	3	7197	368	3	6918	351
		1954	33	6604	5.2	334	3	6313	329	2	6567	341
		1955	21	8066	5.3	353	4	8088	407	3	7 150	371
		1956	14	6849	5.1	353	5	7400	374	4	8358	411
		1957	8	6449	5.0	326	2	7295	402	2	7053	382
		1958	2	8420	5.3	439	1	6920	363			
		1959	19	6478	5.1	332	14	6994	358	3	3899	248
		1960	13	6927	5.0	348	10	7443	389	5	7654	405
M	. SHORTHORN	1957	1	8760	3.8	3 3 3						
		1958	2	10030	3.6	360	2	10080	388	2	8273	332
		1959	7	6177	3.8	231	7	6841	301	1	9385	372
		1960	5	8554	3.5	299	5	8804	313	4	9320	366
	ALL BREEDS	1947	2	7020	5.4	366						
		1948	4	5493	5.3	289						
		1949	14	6678	5.1	337						
		1950	22	7847	5.1	383	2	8460	461			
		1951	33	7862	5.2	391	1	8910	462			
		1952	40	7084	5.3	365	1	7120	361			
		1953	36	7178	5.0	346	3	7197	368	3	6918	351
		1954	41	7411	4.9	349	3	6313	329	3	7070	359
		1955	31	7879	4.9	371	6	8717	395	5	8903	394
		1956	28	6768	5.0	338	6	7690	387	4	8358	411
		1957	16	8429	4.6	371	3	9893	455	3	8953	412
		1958	10	10318	4.4	430	5	9534	400	2	8273	332
		1959	38	7509	4.4	323	33	8342	357	7	7864	330
		1960	24	7563	4.5	341	20	8209	367	13	7989	382

114 TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	GROOFE	.0 01 3100, 01	DRECO; C	ILAN	01 11	LSHENING						
STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT LB.	305-DAY CONTE RECORDS NO.			YEARLY F RECURUS NO.		FAT LB.
001	GUERNSEY	1951	2	10010	5.2	518						
011	GUERNSET	1952	0	7369	5.3	393						
		1953	15	8253	5.2	433						
		1954	15 38	7636	4.9	374	7	8633	408	1	7685	320
		1955	34	7238	4.9	353	8	7515	339	•	, 603	320
		1956	30	7449	4.9	364	12	6985	343	3	6551	322
		1957	27		4.8	301	16	6423	318	3	5966	285
		1958	32	8733	4.9	433	15	8022	385	15	5633	281
		1959	28	8106	4.8	385	18	7839	376	18	6688	319
		1960	3	9947	4.9	491	3	8570	395	3	7990	380
	HOLSTEIN	1947		10935		378	2	10985	371			
		1948		10438	3.5		3	11727	408			
		1949		11073	3.6 3.5	393	12	12825	469			
		1950 1951		11132 11185	3.5	394	28	12249	448 433			
		1952		11230	3.6	372	98	11350	427			
		1953		11032	3.6		121	10957	408	3.8	10910	405
		1954		11257	3.5	396		11128	419		10569	398
		1955		11648		414		11209	419		10880	407
		1956		10806	3.6	385	87	10841	403		10738	400
		1957	119	10836	3.6	387	108	10470	397		10409	396
		1958	83	10758		387	64	10441	388		10368	387
		1959	96	11549		415	92		416		11545	401
		1960	20	12017	3.5	418	20	11131	393	اه	11137	392
	JERSEY	1949	2	7360	5.2	378						
		1950	9			358	1	6230	338			
		1951	9			352						
		1952	17		5.2		1	6040	322			7.7
		1953	18			326	1	6990 7497	373	1 2	6442	343 279
		1954 1955	33 41			360 346	6 19	7518	380 380	4	5739 6170	228
		1956	33	5708	5.1	300	12	6553	334	11		305
		1957	20	5824	5.2	294	10	5997	301		5874	295
		1958	38		5.1	296	20	6994	354	ь	6216	316
		1959	19		5.0	313	17	6981	348	8		320
		1960	1	6440	5.4	349	1	8660	418			
	ALL BREEDS	1947	15	10935	3.5	378		10985	371			
		1948		10438	3.5	367		11727 12825	408 469			
		1949 1950	ხ1 116	10981 10792	3.6 3.7	393 391		12825	404			
		1951	106	10192	3.7		40	11561	433			
		1952		10572		39C	99	11296	426			
		1953		10316		387	122	10925	408	39	10796	404
		1954	198	9633		386	132	10830	416		10456	396
		1955	184	9711	4.2	387	123	10399	408		10680	399
		1956	168	9245	4.1		111	9961	389		10072	387
		1957	166	9486		362	134	9653	381	95	9887	384
		1958	153	9114		374	99	9378	381	75	8978	358
		1959	143		4.0	395		10328	402		10118	378
		1960	24	11525	3.7	424	24	10708	394	2 !	10687	390
002	JERSEY	1951	2	5955	5.2	305						
		1952	8	8808	5.2							
		1953	7	7163	4.8	347						
		1954	4 2	6160	5.4	330						
		1955	3	6883	5.3	357						
	ALL BREEDS	1951	2	5955	5.2	305						
		1952	8	8808	5.2	456						
		1953	7	7163	4.8	34/						
		1954 1955	4 3	6160	5.4	33C						
		1433	3	6883	5.3	357						

STUD	8REED	FRESHENING	RECORDS	MILK	TEST	FAT	305-DAY CONTE		AV. FAT	YEARLY E		ERAGE FAT
3100	OKCCD	YEAR	NO.	LB.	PCT.	L8.	ND.	LB.	LB.	ND.	L8.	L8.
001	GUERNSEY	1950 1951 1952 1953 1954	2 4 5 11	6945 9898 7796 7916 8928	4.2 4.4 4.9 4.6 4.4	293 429 383 365 386	1 3 5 2	6370 8273 7442 7775	362 402 360 378	5 2	8343 7014	397 347
		1955 1956 1958	4 3 1	7583 7223 4420	4.6 4.5 3.9	349 322 173	4 2	8/38 9380	391 455	3 2	6860 6769	318 299
	HOLSTEIN	1951 1952 1953 1954 1955 1956 1957	5 12 13 7	11480 13265 10652 12296 13163 13949 15093	4.3 3.6 3.5 4.0 3.9 4.0	491 480 382 484 513 554 592	1 1 5 9 13	13340 12100 13040 13144 13336 14586 15433	489 476 498 473 475 493 533	5 7 5 3		497 470 413 385 518
		1958 1959 1960	3 3 1	16237 17620 9840	3.6 3.5 4.4	588 626 436	2 3 1	14920 1586 7 9030	519 552 322	1 3	11140 18465	432 641
	JERSEY	1950 1951 1952 1953	2 6 10 10	4645 6992 6044 5975	5.0 5.3 5.6 5.1	229 371 333 302	1 3 2	7010 7707 6890	335 404 394	1	6377	310
		1954 1955 1956 1957 1958	2 2 3 3	6910 9230 7500 5257 7230	5.1	348 425 362 272 351	1 1 2 2	6420 7330 9350 6160 7360	375 425 499 317 365	1 1 2 2 1	7172 6998 7042 6333 7401	424 387 383 333 339
	ALL 8REEDS	1959 1950	1	94 10 5795	4.7	441 261	1	8650	419	1	8502	352
		1951 1952 1953 1954 1955	12 17 26 11 18	8708 7409 7696 10092	4.8 5.1 4.6 4.3 4.2	410 365 344 424 467	3 7 8 8 14	8907 8577 8004 10961 11593	395 413 386 437 448	7 8 11	8737 10647 9545	399 433 385
		1956 1957 1958 1959 1960	19 10 5 4 1	11869 12142 12072 15568 9840	4.2 4.3 3.9 3.8 4.4	487 496 458 580 436	17 9 3 4	13358 13372 12400 14063 9030	489 485 468 519 322	9 5 2 4	8917 10839 9271 15974	365 444 386 569
002	GUERNSEY	1951 1952 1953 1954	1 3 4 7	6920 7600 6960 7250	4.6 4.8 4.7 5.1	319 364 319 363	1	7550	374	1	8655	386
		1955 1956 1957 1958	6 2 3 4	6275 7225 7513 6468	5.0 5.2 5.2 4.9	315 381 386 315	3 ! 2	7663 7550 9135	347 386 416	3 1 1	8135 6551 7924	341 322 377
	HDLSTEIN	1953	2	12090	3.4	408						
	JERSEY	1950 1951 1952 1953 1954	2 11 19 26 18	7570 7305 6822 6968 6899	5.2	427 380 351 356 363	1	7730 6740	401 344	1	7979	373
		1955 1956 1957 1958 1960	14 8 3 2	7196 6880 5643 3460 5990	5.1 5.1 4.6 4.5 5.0	367 351 259 151 300	1	8160	399	i	8208	408
٨	. SHORTHORN	1951 1952 1953 1954	1 5 2 2	4960 6706 6960 5835	4.6 4.0 4.1 3.9	228 264 277 230	2 1 2	2850 7100 6590	118 273 245	2	4949	191
	ALL BREEDS	1950 1951 1952 1953 1954	2 13 27 34 28	7570 7095 6887 7268 7536	5.7 5.1 4.9 4.9 5.1	427 363 336 350 368	2 2 5	2850 7415 8618	118 337 340	4	6633	285
		1955 1956 1957	21 10 6	7780 6949 6578	5.0 5.1 4.9	383 357 323	5	9674 7550	399 386	1	8154 6551	358 322
		1958 1960	6	5465 5990	4.8 5.0	260 300	2	9135	416	1	7924	377

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							3	05-DAY CONTE	MPORARY	Δ٧.	YEARLY #	IERD AVI	FRAGE
STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAT		RECORDS	MILK	FAT	RECORUS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.		NC.	LB.	LB.	NO.	LB.	LB.
003	GUERNSEY	1950	1	7380	5.0	365							
		1951	2	6510	5.4	351							
		1952	Ł	6378	4.8	365							
		1953	3	6957	4.4	309							
		1955	3	8387	5.0	415		3	9267	466			
		1956	2	9720	4.7	452							
		1958	1	6660	5.2	349							
		1959	3	7117	4 - 1	290		2	7075	325			
		1960	1	9580	4.1	390		1	7420	326			
	HOLSTEIN	1950	3	12597	3.7	466							
		1951	Ł,	11875	3.6	421							
		1952	1	13490	3.6	489							
		1953	15	11867	3.3	391		3	11777	424	1	8186	308
		1954	21	11835	3.5	412		13	12858	441	9	11475	412
		1955	30	13712	3.4	460		27	14284	489	13	10295	386
		1956	27	12882	3.5	449		24	13511	475	11	11506	425
		1957	24	13558	3.4	453		23	13718	478	15	11150	391
		1958	24	14219	3.5	495		22	13740	489	16	13625	480
		1959	16	13411	3.6	477		16	13383	479	15	13842	478
		1960	ц	15350	3.2	483		ц	14670	522			
	JERSEY	1951	1	6140	4.2	257							
		1953	1	7060	5.6	396							
		1954	2	6910	4.9	338		1	8080	418	1	10006	512
		1955	2	7940	5.2	408		2	8235	401	2	8698	451
		1958	5	4742	5.4	266							
		1959	8	7359	5.4	396		3	6753	329	3	6576	322
		1960	5	7026	5.4	382							
۲	. SHORTHORN	1954	2	6805	4.0	26B		2	6420	239	2	4949	191
		1957	1	9260	4.3	398		1	9710	397	1	8033	331
	ALL BREEDS	1950	ų	11293	4.0	441							
		1951	7	9523	4.2	377							
		1952	5	7800	4.5	341							
		1953	19	10838	3.6	37B			11777	424	1	8186	30B
		1954	25	11039	3.6	394		16	11754	4 1 4	12	10265	383
		1955	35	12926	3.6	453		32	13435	481	15	10082	395
		1956	29	12664	3.6	449		24	13511	475	11	11506	425
		1957	25	13386	3.4	451		24	13551	475	16	10955	387
		1958	30	12388	3.9	452		22	13740	489	16	13625	480
		1959	27	10918	4.2	432		21	11835	443	18	12631	452
		1960	10	10611	4.4	423		5	13220	483			

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING CRGANIZATIONS--GROUPEO BY STUO, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR	RECORDS NO.	MILK LB.	TEST PCT.	FAT	305-DAY CONT. RECORDS NO.		AV. FAT LB.	YEARLY I RECORUS NO.		FAT LB.
001	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 1 1 3 4 8 7 15 14 15 10 59	13410 13510 12550 13110 11650 10110 9141 9876 10826 10058 10898 13706 13433	3.2 3.1 4.4 3.6 4.1 3.9 3.9 3.5 3.5 3.5 3.5	434 422 547 476 470 394 357 356 381 377 393 472 459	1 2 4 7 5 12 14 15 6 59	13160 8270 11958 11831 10610 10627 11118 11163 10065 13256 13566	379 310 452 441 404 394 403 415 374 458 466	6 3 12 9 2 6 2 2	11/10 12927 8677 9302 10638 9961 11941 12230	429 482 367 339 396 366 421 424
	JERSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 11 18 58 69 52 39 26 30 65	9315 7743 8831 8016 8491 7999 8250 7767 8457 7588 7682	5.3 5.5 5.5 5.2 5.2 5.3 5.2 5.3 5.1 5.1	488 423 486 419 440 424 427 409 436 387 383	1 7 10 12 14 13 21 61	9820 9260 9508 9358 8946 8533 8784 7921	502 475 488 489 466 448 455 400 393	1 2 3 1 2 15 3	8230 7156 7568 7063 7979 8898 7074	315 354 364 334 349 430 370
,	ALL BREEOS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 3 14 22 66 76 67 53 41 40 124	13410 13510 10327 8893 9344 8270 8551 8420 8930 8605 9067 10499 10763	3.2 3.1 5.0 5.1 5.2 5.1 4.9 4.7 4.8 4.4	434 422 507 434 483 416 432 414 397 425 427	1 2 5 14 15 24 28 28 29 120 27	13160 8270 11530 10546 9875 9992 10032 9942 9137 10544 10777	379 310 462 458 460 441 434 431 433 428	6 14 12 3 8 17 5	11710 11753 8459 8869 9446 9465 9256 9136	429 440 365 345 375 362 429 392
002	GUERNSEY	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 14 11 23 36 34 36 28 13 16 5	6423 6921 7343 7143 8027 7674 7736 7629 7226 8377 9218 13130	5.1 4.9 4.8 5.0 4.8 4.8 4.6 4.8	332 342 353 359 382 369 375 359 330 399 406 484	5 12 23 24 31 26 12 11 5	8938 9913 9918 9591 10002 10393 8571 8713 10114 9110	378 414 409 403 429 430 370 389 434 379	17 22 30 26 10 8 5	8474 9433 8710 9595 8454 7650 9662 9777	368 396 386 399 354 343 420 407
	HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	6 3 7 16 42 53 78 83 62 46 49	13668 13213 11353 10119 9917 10817 11286 12033 11343 12495 12478 13222	3.7 3.6 3.6 3.9 3.8 4.0 3.9 3.9 3.9 3.8	501 465 404 399 378 414 449 471 444 485 469	3 2 3 8 30 48 66 77 56 36 47	13733 13710 7853 8526 9090 10043 10614 11012 11473 11996 12028 13142	507 486 329 341 368 398 440 444 456 449 450	20 43 64 70 55 26 47 5	7778 9143 9591 10922 10/14 11401 12092 10296	330 373 398 429 428 439 415 392
	JERSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	6 12 39 55 47 55 45 43 12 8	6638 6267 6813 7021 7356 7462 7882 7211 8531 8334 7460	5.1 5.0 5.0 5.1 5.2 4.9 4.9 5.0	330 312 341 356 384 366 398 358 416 399 373	1 2 5 7 7 9 8 10 3 7	7470 7825 8582 7807 8251 8126 8571 8015 7467 7440 7000	386 408 423 407 410 396 415 396 393 374 362	5 4 6 5 8 1 5	8112 7137 7606 7807 7977 6616 7896 7129	411 347 372 365 389 335 377 355
M.	. SHORTHORN	1954 1955	1	9290 7270	4.7 4.4	434 320						
	ALL BREEDS	1949 1950 1951	9 23 30	11253 7668	4•2 4•8	445 355	3 3	13733 11630	507 452			

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPEO BY STUD, BY BREEC, BY YEAR OF FRESHENING

							305-DAY CONT	EMBUDABA	/ A W	YEARLY 1	IEDE AV	EDACE
STUO	8REE0	FRESHENING	RECOROS	MILK	TEST	FAT	RECOROS		FAT	RECURUS	MILK AV	FAT
3100	ONLEG	YEAR	NO.	LB.	PCT.	L8.	NO.	L8.	LB.	NO.	18.	LB.
		1952	78	7588	4.8	358	25	9203	393	*****	LU.	LU.
		1953	133	8208	4.6	370	60	9258	388	42	8100	355
		1954	135	8810	4.6	392	79	9747	401	69	9119	379
		1955	170	9274	4.5	406	106	10224	433	100	9208	393
		1956	156	10045	4.4	430	111	10224	433	101	10426	419
		1957	118	9384	4.4	400	78	10583	435	73	10104	413
		1958			4.4	455	50					
			74	10961				11002	433	35	10407	414
		1959	62	11680	4.0	455	59	11322	440	57	11511	412
		1960	12	12734	3.8	487	11	12217	479	7	9770	389
003	HOLSTEIN	1955	3	13080	3.7	482	3	15010	531			
		1956	Ł	13715	4.1	560	3	11957	445	2	11238	422
		1957	3	14443	3.6	514	3	12723	490	3	13367	504
		1958	3	16480	3.7	606	3	16083	595	3	13411	515
		1959	4	15540	3.6	559	4	14223	546			
		1960	i	15530	3.9	606	i	14110	514	1	12426	439
			•	.3330	3.7	000	·		314	·	12 120	73,
	JERSEY	1951	3	10380	5.2	540						
		1952	3	8077	5.4	433						
		1953	5	9158	5.4	490	1	8540	532			
		1954	7	8823	5.3	465						
		1955	9	8454	5.1	428	1	12350	601			
		1956	8	8630	5.1	444	i	9640	516			
		1957	5	7498	5.4	404	1	8270	437			
		1958	3	7580	5.4	407	2	8305	4 12			
		1959	1	7220	5.2	378						
	ALL BREEDS	1951	3	10380	5.2	540						
		1952	3	8077	5.4	433						
		1953	5	9158	5.4	490	1	854C	532			
		1954	7	8823	5.3	465						
		1955	12	9611	4.8	441	Łą	14345	549			
		1956	12	10325	4.8	463	Lą .	11378	463	2	11238	422
		1957	8	10103	4.7	445	4	11610	477	3	13367	504
		1958	6	12030	4.6	506	5	12972	522	3	13411	515
		1959	5	13876	3.9	523	Łą	14223	546			
		1960	1	15530	3.9	606	1	14110	514	1	12426	439
0.01		1057		7.75.0	3 0	0.77						
004	HOLSTEIN	1953	1	7350	3.2	237						
	ALL BREEDS	1953	1	7350	3.2	237						
005	IEO CEN	1054		7000	h. 2	207		0.040	276			
005	JERSEY	1956	1	7020	4.3	303	1	9080	375			
	ALL BREEDS	1956	1	7020	4.3	303	1	9086	3 7 5			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHLERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONTE			YEARLY I		
STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAT	RECORUS	MILK	FAT	RECORDS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NO.	LB.	LB-	NO.	LB.	LB.
001	GUERNSEY	1950	1	10070	4.5	453						
001	OCERNSET	1951	i	8110	4.7	383						
		1952	10	7324	4.7	345	7	8971	396			
		1953	6	7187	5.1	363	5	7930	388	3	6801	327
		1954	13	6725	4.6	309	13	7142	328	8	8658	404
		1955	ii	6922	4.8	328	ii	7509	339	5	8790	389
		1956	10	6690	4.8	315	10	7434	337	i	8295	356
		1957	12	6365	4.9	308	12	8565	383	•	0273	330
		1958	3	4607	4.6	201	3	6387	256			
		1959	ĩ	6600	3.7	245	ĩ	10100	359			
	HOLSTEIN	1950	2	11845	3.5	406	2	11315	406			
	HOLSTEIN	1951	16	12759	3.6	457	10	12400	439			
		1952	45	13194	3.6	472	28	12636	443			
		1953	86	12640	3.6	417	59	13001	448	49	11645	400
		1954	144	12312	3.6	434	119	12850	440	91	12449	430
		1955	142	12070	3.6	434	123	12704	444	107	12527	433
		1956	174	12227	3.6	439	164	12752	455	119	12660	444
		1957	147	11921	3.6	433	137	12766	463	103	12495	446
		1958	133	12307	3.6	442	116	12397	451	51	12755	459
		1959	108	12604	3.6	455	105	12514	454	45	12530	452
		1960	13	12200	3.6	443	12	13028	478	7	12437	451
		1900	13	12200	7.0	443	12	13020	410	'	12431	451
	JERSEY	1951	14	7348	5.7	416	3	8630	457			
		1952	11	8355	5.5	458	9	8872	471			
		1953	20	8b40	5.5	485	14	8718	476	14	8512	459
		1954	18	7968	5.7	448	11	8003	452	9	8528	458
		1955	25	7901	5.6	439	20	7935	437	1.1	8244	455
		1956	23	7162	5.5	390	17	7633	428	7	7247	387
		1957	17	7769	5.4	420	8	8585	472			
		1958	15	7305	5.5	401	6	7865	440			
		1959	6	7802	5.7	440	3	7573	426			
		1960	1	8850	5.4	474						
В	ROWN SWISS	1957	5	9546	4.1	388	1	11030	429	1	10322	410
		1958	1	16780	3.9	659						
		1959	7	11476	4.2	483	5	11430	461			
		1960	2	11265	4 - 1	4/0	2	8790	387			
	ALL BREEDS	1950	3	11253	3.8	421	2	11315	406			
		1951	21	11507	4.1	446	13	11530	443			
		1952	66	11498	4.1	451	14 24	11283	441			
		1953	112	11669	4.0	450	78	11907	450	66	10760	409
		1954	175	11450	3.9	426	143	11958	434	108	11841	430
		1955	178	11166	3.9	426	154	11713	435	123	11992	433
		1956	207	11397	3.9	427	191	12018	447	127	12327	440
		1957	181	11097	3.9	422	158	12225	457	104	12474	446
		1958	152	11691	3.8	435	125	12035	446	5 1	12755	459
		1959	122	12253	3.8	454	114	12316	453	45	12530	452
		1960	16	11874	3.8	448	14	12423	465	7	12437	451

							305-DAY CONTE	HOODARV	A 1/	VEADLV L	CPO AVI	EDACE
STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK L8.	TEST PCT.	FAT LB.	RECORDS NO.		FAT L8-	YEARLY F RECORDS NO.	MILK LB.	FAT L8.
001	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 10 20 21 33 33 31 23 10	8780 7430 7738 7894 9062 8411 8542 9074 8906 9667	4.3 4.9 4.8 4.9 4.8 4.7 4.8 4.6 4.4	379 361 369 382 432 405 401 429 409 427	2 13 17 28 29 29 20 7 10 2	8145 8702 8673 8862 9149 9252 9934 7990 8954 9370	407 419 419 426 433 430 457 383 409 445	15 25 27 25 18 6 9	8198 8606 8988 8937 9001 9036 9277 9385	395 418 421 427 422 424 438 431
	HOLSTEIN	1954 1955 1956 1957 1958 1959	10 18 26 27 31 22	12125 12152 11928 13412 12217 14160 14156	3.6 3.6 3.6 3.5 3.6 3.5	428 435 430 476 429 503 472	6 14 21 20 25 21 6	13808 12811 13462 14542 12818 14041 12370	486 457 481 523 476 519 486	6 11 20 18 16 21	12582 12523 12140 12869 13870 14046 13499	432 444 440 467 505 525 499
	JERSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 6 10 14 18 15 18 13 21 14	7860 8325 8058 7791 8638 8122 8413 8020 8447 8310 9500	5.5 5.4 5.3 5.5 5.6 5.4 5.6 5.7 5.5	429 444 423 427 468 447 454 446 465 472	1 4 8 13 17 15 15 13 14 11	10200 7888 8135 8327 8817 8668 8757 8279 8765 8875 8300	515 430 440 458 478 464 475 459 464 466 440	8 16 12 16 11 14 11	7788 8300 7885 8105 7806 8251 8643 7979	410 447 439 431 420 443 459 403
М	. SHORTHORN	1954 1955	1	4670 11600	3.8 4.5	178 518				1	8709	323
		1956 1957	3	9433 10250	3.9 4.2	378 436	2	8970	339	2	7903	286
	ALL BREEDS	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 16 30 35 62 67 78 64 62 46	8320 7766 7844 7853 9362 9399 9676 10708 10406 11403 12625	4.9 5.1 5.0 5.1 4.8 4.7 4.5 4.4 4.4	404 392 387 400 438 424 422 452 438 477 480	1 6 21 30 51 58 67 53 46 42	10200 7973 8486 8523 9429 9909 10452 11267 10850 11477 10956	515 422 427 436 450 447 453 483 458 479 468	23 48 50 63 47 36 41	8055 9003 9501 9710 10202 10879 11549 12123	400 427 430 428 439 467 488 476
002	GUERNSEY	1952 1953 1954 1955 1956 1957 1959	2 1 5 2 3 1	8920 8610 8506 6225 6003 5580 10750	4.8 5.2 4.8 5.0 4.9 4.5	427 450 409 310 292 251 520	2 1 4 2 3 1 1	9170 10260 8258 7165 5533 5570 9500	441 483 385 350 269 264 514	1 3 2 3 1 2	9232 8233 7249 5472 6344 8884	441 391 347 267 293 449
	HOLSTEIN	1950 1951 1952 1953 1954 1955 1956 1957 1958	2 6 8 20 36 31 26 19	14555 14018 14050 14436 13923 13603 14018 13234 13926 14868	4.0 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	581 500 499 513 494 487 500 481 516	1 3 7 16 25 25 22 16 9	19660 12530 13090 14033 14107 13835 13975 14277 13714 15788	735 441 478 493 502 510 511 529 513 575	13 28 27 19 12 7	13035 13073 13296 12962 13084 14201 15542	473 477 489 463 478 515 569
	JERSEY	1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 10 16 23 20 21 19 11 19	6460 7500 8585 8752 8511 8140 8073 8575 8473 7860 4900	5.3 5.4 5.5 5.3 5.3 5.2 5.1 5.0 5.2 5.8	339 411 458 476 452 433 419 430 429 400 286	4 13 21 17 16 15 9 10 14	7990 8629 8783 8595 8619 8193 8590 8891 8744	437 441 461 455 463 437 445 466 461	15 15 17 14 9 10	8326 9109 8311 8367 8199 9362 9053	429 471 435 440 426 442 474
	ALL BREEDS	1950 1951 1952 1953	3 16 26 44	11857 9944 10292	4.4 4.8 4.8	500 444 468	1 7 22	19660 9936 10098	735 438 453			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

									MPORARY		YEARLY		
STUD	BREEO	FRESHENING	REC OROS	MILK	TEST	FAT	RE	COROS	MILK	FAT	RECORDS		FAT
		YEAR	NO.	LB.	PCT.	LB.	1	NC.	LB.	LB.	.04	LB.	LB.
		1954	61	11705	4.2	473		46	11561	475	46	11465	469
		1955	54	11205	4.3	459		43	11584	485	46	11191	463
		1956	4 B	11164	4.3	455		40	11174	465	36	10551	43B
		1957	31	11334	4.2	455		26	11973	490	22	10779	448
		1958	29	10353	4.6	459		19	11176	488	17	10767	472
		1959	27	10517	4.6	460		23	11227	503	23	11577	509
		1960	1	4900	5.8	286		1	909C	473			
003	GUERNSEY	1949	2	9625	5.0	479							
		1950	3	B673	4.7	412		- 1	9360	441			
		1951	3	9547	5.0	4/7		1	10290	486			
		1952	4	8848	4.8	424		- 1	8810	424			
		1953	3	8400	4.9	415		2	7B90	380	1	893B	426
		1954	2	9170	4.9	447		1	9150	466	1	9352	453
		1955	2	10145	5.2	517		- 1	8190	416	1	93/4	469
		1956	1	8280	5.3	437		- 1	10B90	512	1	BB62	453
		1958	1	11210	5.1	571					}	9963	476
		1959	1	11170	5.1	566		1	11850	518	1	10693	496
	JERSEY	1950	3	8063	5.4	433		1	8720	456			
		1951	4	7743	5.2	4 C 4		3	8323	452			
		1952	2	9145	5.1	4/1		2	8020	450			
		1953	2	B965	5.2	464		- 1	8850	457			
		1954	1	7250	5.0	366		1	7980	419	1	8513	459
		1955	2	8760	4.9	432		2	8600	421	4	8263	434
		1956	1	7580	4.9	372		ī	11470	570	1	8557	451
		1957	i	10300	5.0	515		1	9520	544	1	9570	519
	ALL BREEOS	1949	2	9625	5.0	479							
		1950	6	8368	5.0	423		2	9040	449			
		1951	7	8516	5.1	435		4	8B 15	460			
		1952	6	8947	4.9	440		3	8283	441			
		1953	5	B626	5.0	435		3	6210	406	1	8938	426
		1954	3	8530	4.9	420		2	8565	443	2	8933	456
		1955	14	9453	5.0	474		3	8463	419	5	8633	446
		1956	2	7930	5.1	405		2	11180	541	2	6710	452
		1957	ī	10300	5.0	515		ĩ	9520	544	1	9570	519
		1958	i	11210	5.1	571					1	9963	476
		1959	i	11170	5.1	566		1	11850	518	i	10693	496

TABLE 10.--AVERAGE OF THE RECORDS OF OAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STU0	BREED	FRESHENING YEAR	RECOROS NO.	MILK	TEST PCT.	FAT LB.	305-0AY CONTE RECOROS NO.		AV. FAT LB.	YEARLY F RECORDS NO.		ERAGE FAT LB.
001	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 4 11 7 13 12 20 24 24 18 13 6	7880 8025 7490 7496 7468 8088 8630 8421 8640 7755 8567 7770	4-9 4-6 4-8 4-6 4-9 4-8 4-8 4-7 4-7 4-7	383 366 359 346 369 389 413 410 404 364 417 379		10640 13410 11209 10532 9611 9051 10438 9364 11372	423 505 481 471 437 414 453 419	2 3 11 8 5 3	9271 8669 9090 9776 9315 11598	419 418 416 426 426 467
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	2 7 7 8 17 21 28 35 24 45 35 41 39 8	14970 13336 14487 14681 12148 12107 13900 14591 13987 13907 14107 13777 15109 14641	3.6 3.9 3.7 3.8 3.8 3.7 3.7 3.7 3.8 3.8 3.7 3.7	542 515 531 558 459 452 508 533 527 520 519 501 531 489	1 3 8 10 20 29 22 39 31 33 38	9080 12717 10750 12061 12742 13336 12494 12356 12590 12971 14710 15845	464 503 411 463 486 513 487 492 492 518 541	5 6 1 35 25 24 26 6	10305 11638 12066 12033 11315 12584 15251 15707	375 432 439 471 450 489 525 508
	JERSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 5 2 4 8 13 12 8 11 6 15	5630 6502 5960 6373 6304 7021 7198 6940 7215 6852 9705 10233 9602	5.6 5.7 6.4 5.9 5.4 5.6 5.4 4.7 4.9 5.2	315 369 383 371 339 375 396 375 393 328 461 524 474	1 1 3 3 1 2 5 5	7320 7320 7890 6813 6250 7175 8296 9938 8050	389 360 421 337 323 372 438 500 396	3 3 1 2 1 5 4	6293 9091 6791 6971 7543 8513 9143	341 367 365 373 384 436 455
В	ROWN SWISS	1949 1950 1951 1952 1953 1954 1958 1959	1 1 5	11980 12490 11290 10800 11489 11720 9250 12623 11438	4.1 4.0 4.4 4.1 4.0 3.9 3.6 4.3	491 503 496 436 462 454 337 534	1 5 2	9560 11984 12845	419 486 520	1 3 1	8513 11823 8164	342 467 317
	• SHORTHORN	1957	1	4620	3.8	174	1	10960	423			
	ALL BREEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 12 24 18 35 46 72 76 56 74 55 64 67	12607 10923 9512 10796 9725 9907 10826 11286 10689 11416 11834 12118 13580 12405	4.0 4.3 4.6 4.4 4.5 4.3 4.4 4.4 4.4 4.1 4.1 4.0 4.0	1:39 449 417 455 417 414 450 467 463 468 475 526 485	1 3 9 12 28 42 34 54 44 44 53	9080 12717 10738 11778 12165 12279 11230 11386 11818 11952 13688 12747	464 503 413 460 480 497 471 465 476 476 511	7 12 4 47 35 31 37	10009 9560 9835 11232 10715 11763 13766 12634	388 406 385 455 440 471 504 471
002	GUERNSEY	1949 1950 1951 1952 1953 1954 1958	7 5 6 8 4 5 2	10191 7452 8168 7478 7375 8452 8910	4.7 4.9 5.0 4.9 4.8 4.7	473 364 402 377 359 403 418	3 1	8463 7920	419 426	1 3 1	9647 8448 8022	495 417 413
	ALL BREEOS	1949 1950 1951 1952 1953 1954	7 5 6 8 4 5	10 191 7452 8168 7478 7375	4.7 4.9 4.9 5.0 4.9	473 364 402 377 359				1	9647	495

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TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, 8Y BREED, 8Y YEAR OF FRESHENING

							305-DAY CONTE	EMPORARY	AV.	YEARLY H	LRO AVI	ERAGE
STUD	BREEO	FRESHENING	RECOROS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECURES	MILK	FAT
		Y L AR	NO.	LB.	PCT.	LB.	NU.	L8.	LB.	NO.	LB-	LB.
		1958	2	8910	4.7	418	1	7920	426	1	8022	413
003	HOLSTLIN	1947	2	9845	3.5	349						
		1948	8	9746	3.6	349						
		1949	8	12248	3.7	445	3	13983	491			
		1950	14	11063	3.6	410	6	14723	523			
		1951	18	10616	3.6	380	4	13563	471			
		1952	15	10422	3.7	383	10	12473	444			
		1953	11	10358	3.7	37b	7	11764	425	7	11510	417
		1954	12	10831	3.7	402	9	12633	457	9	11914	432
		1955	12	12774	3.5	437	9	12678	461	ರ	12868	472
		1956	17	11473	3.7	418	14	12021	437	12	10919	393
		1957	6	9805	3.5	350	ц	13988	505	2	14236	444
		1958	6	10020	3.6	356	2	11500	421	2	10747	399
		1959	2	7835	3.0	276	2	9210	333	1	10377	373
	ALL BREEDS	1947	2	9845	3.5	349						
		1948	8	9746	3.6	349						
		1949	8	12248	3.7	445	3	13983	491			
		1950	14	11663	3.0	410	6	14723	523			
		1951	18	10616	3.6	380	Łį	13563	471			
		1952	15	10422	3.7	383	10	12473	# # #			
		1953	1.1	10358	3.7	378	7	11764	425	1	11510	417
		1954	12	10×31	3.7	402	9	12633	457	9	11914	432
		1955	12	12774	3.5	437	,	12678	461	8	12868	472
		1956	17	11473	3.7	418	14	12021	437	12	10919	393
		1957	6	9805	3.5	350	4	13988	505	2	14236	494
		1958	6	10020	3.6	356	2	11500	421	2	10747	399
		1959	2	7835	3.6	276	2	9210	333	1	10377	373
004	HOLSTEIN	1947	4	13633	3.5	479						
		1948	4	12088	3.6	441						
		1949	3	11410	3.4	391						
		1950	2	13180	3.4	451						
	ALL BREEDS	1947	4	13633	3.5	479						
		1948	4	12088	3.6	441						
		1949	3	11410	3.4	391						
		1950	2	13180	3.4	451						

124 TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING CRGAMIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-LAY CONT	MPORARY	AV.	YEARLY H	HERD AV	EKAGE
STUO	BREED	FRESHENING	RECUROS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECURDS	MILK	FAT
		YEAR	NO.	LB.	PCT.	LB.	NC.	LB.	LE.	NO.	LB.	LB.
001	HOLSTEIN	1950	2	10650	3.5	369	,	12590	445			
001	HOLSTEIN	1951	4	13128	3.3	423	i	15110	445			
		1952	3	12650	3.6	458		14690	557			
		1953	3	13183	3.4	443	2	12665	435	1	12132	426
		1954	3	9980	3.3	333	2	14285	471	•	12132	420
		1955	2	12935	3.2	410	2	12220	414	2	12939	429
		1956	1	10850	3.3	361	1	12560	422	ĺ	12808	424
		1957	2	12265	3.3	401	2	11085	382	2	12094	412
		.,,,,	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3.3		-		, , ,	-		**-
	JERSEY	1947	8	7459	4.8	358						
		1949	9	6348	5.1	321						
		1950	6	5852	5.0	294						
		1951	10	5537	5.0	28C	2	8960	420			
		1952	6	5125	5.1	260						
		1953	4	7568	5.3	346						
		1954	3	7930	5.3	425						
		1955	3	8157	5.0	405	1	8520	451			
		1956	3	9060	4.8	437	2	7295	361			
		1957	1	6660	4.3	284	1	5950	260			
	ALL BREEOS	1947	8	7459	4.8	358						
		1949	9	6348	5.1	321						
		1950	8	7051	4.6	313	1	12590	445			
		1951	14	7706	4.5	321	3	01011	428			
		1952	9	7633	4.6	326	ī	14690	557			
		1953	7	9974	4.5	416	2	12665	435	1	12132	426
		1954	6	8955	4.3	379	2	14285	471			
		1955	5	10068	4.3	407	3	10987	426	2	12939	429
		1956	4	9508	4.4	418	3	9050	381	1	12308	424
		1957	3	10397	3.6	362	3	9373	341	2	12094	412

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING UKGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BRLEC	FRESHENING YEAR	RECOROS NO.	MILK L8.	TEST PCT.	FAT L8.	305-DAY CONTE RECORDS NO.		AV. FAT LB.	YEARLY E RECURDS NO.	HERD AVE MILK LB.	RAGE FAT LB.
000	JERSEY	1947 1948 1949 1950 1951	42 23 11 6 4	7205 7317 7686 9562 9135	5.2 5.3 5.4 5.2 5.7	378 389 416 498 517						
	ALL BREEOS	1947 1948 1949 1950 1951	42 23 11 6 4	7205 7317 7686 9562 9135	5.2 5.3 5.4 5.2 5.7	376 389 416 498 517						
001	HOLSTEIN	1947 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 8 14 27 37 46 44 49 63 33 2 8	8630 10204 10026 11044 11345 11920 13325 12872 13494 13205 12305 11846	4.2 3.8 3.7 3.8 3.6 3.6 3.5 3.4 3.4 3.9	362 384 363 407 403 422 456 437 451 450 477 439	4 8 11 20 24 25 46 63 28 2	13248 11956 11726 11731 12177 12877 13288 14406 14037 13090 12514	441 409 397 400 411 428 453 490 475 450 439	24 28 46 63 28 2	12731 13331 13899 14321 14992 13413 13811	449 473 499 522 531 488 491
	ALL BREEOS	1947 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	1 8 14 27 37 46 44 49 63 33 2 8	8630 10204 10026 11044 11345 11920 13325 12872 13494 13205 12305 11846	4.2 3.8 3.7 3.6 3.6 3.5 3.4 3.4 3.9 3.7	362 384 363 407 403 422 456 437 451 450 477 439	4 8 11 20 24 28 46 63 28 2	13248 11956 11726 11731 12177 12877 13288 14406 14037 13090 12514	441 409 397 400 411 428 453 490 475 450 439	24 28 46 63 28 2	12731 13331 13899 14321 14992 13413 13811	449 473 499 522 531 488 491
002	GUERNSEY	1950 1951 1952 1953 1954 1955 1956 1957	3 3 4 2 4 3 13 8	7440 8070 7105 7690 9228 10837 9946 9838 9190	5.0 4.8 4.4 5.0 4.8 4.8 4.8	364 386 338 338 459 522 470 468 480	1 2 9 2 1	8200 10580 12496 9765 10370	379 519 625 470 484	1 2	8110	379 448
	HOLSTE IN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 11 15 12 8 8 17 28 15 2 27 2	15610 10540 11710 10916 12878 13280 14270 13378 13307 12910 12586 12045	3.3 3.9 3.7 3.7 3.6 3.5 3.6 3.5 3.5 3.5 3.5	515 412 432 402 458 462 495 476 439 434 385	5 7 9 6 6 17 28 3 1 27 2	12130 12123 12446 12590 12933 15051 15982 14517 11640 12311	406 402 409 413 428 520 559 520 399 438 437	7 6 17 26 3 1 24	12647 13331 11890 13410 15347 13701 13662	445 473 452 493 542 489 487
	JEKSEY	1948 1949 1950 1951 1955 1956 1957 1958 1959	1 2 3 1 2 1 1 1	5900 7720 6260 8890 7035 6660 7850 9070 6360	5.0 4.7 4.6 4.9 5.6 5.5 5.2 5.3 4.8	293 364 285 437 389 364 409 480 303	1 1	8790 8220	436 396	1	8698 8186	426 399
	ALL BREEDS	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 3 17 19 16 10 12 22 42 24 3 29	5900 10350 9238 10987 9963 11840 11929 13144 12156 11923 11630 12254	5.0 4.2 4.2 3.9 4.0 3.7 4.0 4.0 4.1 3.6	293 431 425 386 434 461 487 463 452 431	5 7 9 6 7 19 37 5 2	12130 12123 12446 12590 12257 14581 15134 15616 10215 12103	406 402 409 413 421 519 575 500 418 438	7 7 17 25 5 2 25	12647 12585 11890 13410 12836 11200 13443	445 460 452 493 504 458 483

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONTE	MPORARY	AV.	YEARLY H	ERD AVE	RAGE
STUD	BREED	FRESHENING	RECOROS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECURDS	MILK	FAT
		YEAR	NO -	LB.	PCT.	LB.	NO.	LB.	LB.	NO.	Lb•	LB.
003	HOLSTEIN	1954	4	14470	3.5	506						
		1958	1	16170	3.7	598						
	JERSEY	1953	1	5750	5.0	265	1	6080	324	1	7085	392
		1954	2	8280	5.7	480	2	9015	489	2	8165	439
		1955	1	10180	6.7	684	1	10350	550	1	8905	475
		1956	1	9530	6.5	623	1	9000	475	1	9505	492
		1957	1	8550	6.2	529	1	9650	463	1	9341	469
	ALL BREEDS	1953	1	5750	5.0	285	1	6080	324	1	7085	392
		1954	6	12407	4.2	497	2	9015	489	2	3165	439
		1955	1	10180	6.7	684	1	10350	550	1	8905	475
		1956	1	9530	6.5	623	1	9060	475	1	9505	492
		1957	1	8550	6.2	529	1	9650	463	1	9341	469
		1958	1	16170	3.7	598						

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING UKCANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK L8.	TEST PCT.	FAT LB.	305-DAY CONTE RECORDS NO.		FAT LA.	YEARLY F REGURDS NO.		ERAGE FAT LB.
001	AYRSHIRE	1960	4	9038	4.1	372	3	9820	379			
001	GUERNSEY	1948 1949 1950 1953 1954 1955 1956 1957 1958 1959	1 2 1 18 25 37 37 32 17 12	7490 7420 7020 8731 8230 8112 8176 7918 8848 8863 12090	6.0 5.3 6.0 4.4 4.5 4.6 4.6 4.7 4.8 4.7	450 380 419 384 364 365 388 369 412 422 566	14 20 33 35 30 14 1 i	10520 9512 9212 9548 9840 8454 9130 9960	446 414 397 428 423 389 423 450	5 21 33 15 8 3	7911 9414 9180 8603 d103 8382 8666	368 399 399 419 391 400 412
	HCLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	9 3 4 3 1 2 257 512 677 739 605 600 695	15967 16890 16988 15107 18580 12125 12402 12298 12541 12625 12720 13596 14147 14048	3.3 3.5 3.6 3.8 3.4 3.6 3.6 3.6 3.6 3.6 3.6	528 555 588 544 712 403 447 440 447 451 456 489 505 472	2 210 460 633 690 569 565 607	9830 12103 12149 12547 12975 13182 13294 13673 14213	391 441 440 455 471 475 485 492 502	15 439 536 64 87 95 135	10592 12259 12397 10799 11995 12749 13773 14208	373 444 450 384 435 474 505 512
	JERSEY	1953 1954 1955 1956 1957 1958 1959	53 66 70 83 50 65 78 22	8351 7231 7498 7384 7629 7850 8206 8059	5.2 5.1 5.3 5.1 5.1 5.1 5.2 5.4	431 371 395 379 392 396 427 430	31 37 40 38 27 34 64	8009 8028 7987 7706 8296 7636 8109 8753	405 402 412 394 416 394 427 455	39 38 8 2 3 4	8231 7928 7065 7881 6433 7568 10573	412 404 363 402 406 521 581
8	ROWN SWISS	1958 1959 1960	4 6 2	11133 10367 11545	4.4 4.2 4.1	481 422 470	3 4	9817 9288	599 389	ن 4	10112 10034	428 416
м	• SHORTHORN	1958	1	9930	3.9	383						
	ALL 8REEDS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	9 4 6 4 1 2 328 603 784 859 687 791	15967 14540 13798 13085 18580 112125 11546 11574 11881 11927 12126 12915 13453 12930	3.3 4.0 4.1 4.2 5.8 3.4 3.9 3.8 5.8 3.8 5.8	528 529 513 513 712 403 441 430 439 441 447 478 495 479	2 261 517 706 763 626 616 746 129	9830 11531 11752 12178 12556 12811 12855 13105 13400	391 437 436 450 465 470 477 485	20 499 607 87 97 104 147	9922 11825 11942 10112 11589 12422 13418 13965	372 439 444 388 430 469 500 517
002	HOLSTEIN	1947 1950 1953 1954 1955 1957	7 3 3 1 1	11217 12813 13033 10840 8150 11480	3.2 3.5 3.4 3.5 3.7 3.3	360 450 444 376 298 377	3 1 1	14130 12420 10270 11350	50 7 463 383 383	1	14497 11096	525 391
	JERSEY	1947 1948	2 1	6830 4890	5.2 5.5	351 270						
	ALL 8REEDS	1947 1948 1950 1953 1954 1955	9 1 3 3 1 1	10242 4890 12813 13033 10840 8150 11480	3.6 5.5 3.5 3.4 3.5 3.7 3.3	358 270 450 444 376 298 377	3 1 1 1	14130 12420 10270 11350	507 463 383 383	1	14497 11096	525 391

TABLE 10.--AVERAGE OF THE RECUROS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-D	AY CONTE	MPOKARY	AV.	YEARLY H	EKD AVE	RAGE
STU0	8REE0	FRESHENING YEAR	RECOROS NO.	MILK L8.	TEST PCT.	FAT L8.		RECORDS NO.	MILK LB.	FAT LB.	RECORDS NO.		FAT L8.
000	HOLSTEIN	1947 1948 1949	1 1 1	15970 14080 14060	3.1 3.2 3.2	501 450 453							
	JERSEY	1947 1948 1949 1950 1951 1952 1953	47 15 17 7 7 6 3	7520 6993 7088 7171 7637 7397 7530 6910	5.7 5.9 5.7 5.8 5.6 5.1 5.1	427 409 403 417 423 376 380 370		2 1 1 1 1 2	8320 8380 6430 8840 8420 8440	509 451 459 485 479 466			
	ALL 8REEOS	1947 1948 1949 1950 1951 1952 1953	48 16 18 7 7 6 3	7696 7436 7476 7171 7637 7397 7530 6910	5.7 5.6 5.8 5.6 5.1 5.1	429 412 406 417 423 376 380 370		2 1 1 1 1 2	8320 8380 8430 8840 8420 8440	509 451 459 485 479 466			
001	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	7 4 11 36 68 120 222 253 306 274 276 178 95 28	11823 11290 10611 9263 9227 8780 8799 8987 8974 8877 8974 8979 9405 9337	4.8 4.7 4.8 4.9 4.8 4.8 4.8 4.8	566 540 496 441 446 420 420 432 427 427 432 447 445 478		2 11 40 91 192 234 290 259 262 146 80 24	9490 9590 9043 8980 9166 9192 9460 9713 9780 9502 9547 9773	430 459 436 429 430 441 448 456 458 446 461 470	116 210 232 13 178 17 78	9395 9277 9202 9211 9799 9032 9826 9980	448 447 444 434 468 432 475
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	7 5 22 36 94 147 360 525 602 652 751 818 818	12691 10080 13255 13314 13372 12932 12422 12453 12651 12874 12874 12902 13698 14303 14487	3.8 3.7 3.6 3.5 3.7 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7	479 470 470 488 467 452 455 465 475 473 503 510		9 20 56 121 330 490 572 616 718 721 651 150	13614 13133 13264 132557 11885 12214 12178 12520 12515 12986 13713 14053	491 472 497 464 447 463 474 472 493 503 513	190 433 451 13 544 132 613	12141 11855 12256 11154 12479 13112 13588 13942	460 448 462 420 470 485 500 507
	JERSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	5 9 20 37 114 198 284 298 247 229 188 291 294	7960 7789 8070 8462 8440 8267 8169 8017 8336 8698 9023 9353 9325	5.9 6.0 5.8 5.7 5.6 5.5 5.5 5.5 5.5 5.5 5.5	462 464 462 461 475 455 444 435 478 478 476 491 504		1 3 15 58 122 178 177 147 140 115 130 215	9183 9537 8576 8417 8260 8053 8379 8793 9261 9125 9134 8899	513 507 474 457 439 431 450 475 498 492 489 477	131 152 125 1 101 40 235 83	8723 8381 8573 6507 9053 8970 9282 9406	467 452 459 349 481 476 497
8	BRUWN SWISS	1951 1952 1956 1957 1958 1959	2 1 1 1 4 1	7480 7530 12010 9600 11935 9580	4.1 3.6 4.3 4.1 4.4	304 273 522 392 536 383		1 1 3	11500 10910 12450	489 461 529	1 2	10682 10083	456 445
1	4. SHORTHORN	1957 1958 1959	3 3 6	10690 10340 9950	4.3 3.7 3.8	459 378 368		1 1 4	9690 8210 8593	466 306 330	Į	9434	373
	ALL BREEDS	1947 1948 1949 1950 1951	19 18 53 109 278 466	11126 9203 10749 10329 10293	4.7 5.1 4.6 4.7 4.8	506 457 473 464		1 14 46 154	8470 12076 11113 10402	404 487 481 473			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT			YEARLY I		
STUD	8REED	FRESHENING YEAR 1953 1954 1955 1956 1957 1958 1959	RECORDS NO. 866 1076 1155 1156 1219 1294 1090 298	MILK L8. 10098 10409 10754 11098 11350 12043 12507 12218	TEST PCT. 4.5 4.4 4.4 4.3 4.2 4.2 4.2	FAT L8. 441 445 453 464 464 492 502 502	RECORDS NO. 7C0 901 1009 1016 1097 1001 950 261	MILK L8. 10218 10612 10843 11290 11516 11970 12304 11941	FAT L8- 440 446 457 470 471 486 495 497	RECORDS NO. 437 795 811 27 824 191 930 258	MILK L8. 10388 10510 10801 10046 11478 11850 12166 12191	FAT LB. 459 449 456 425 471 478 496 503
002	GUERNSEY	1953 1954 1955 1956 1957 1958 1959	2 8 7 6 5 7 2	10315 9459 9196 9032 9430 8833 8715 10210	4.8 4.7 4.8 4.7 4.6 4.8 4.5	493 437 442 420 438 420 390 460	2 8 7 6 5 6 2 1	9360 9618 8766 8892 9716 10517 10720 10360	451 448 420 411 458 514 541 519	1 6 5 1 2 4 2	8676 9198 10290 8437 9462 10396 11058 10998	420 438 477 389 454 500 550 518
	ALL 8REEDS	1953 1954 1955 1956 1957 1958 1959	2 8 7 6 5 7 2	10315 9459 9196 9032 9430 8833 8715 10210	4.8 4.7 4.8 4.7 4.6 4.8 4.5	493 437 442 420 438 420 390 460	2 8 7 6 5 6 2	9360 9618 8766 8892 9716 10517 10720 10360	451 448 420 411 458 514 541 519	1 6 5 1 2 4 2	8676 9198 10290 8437 9462 10396 11058 10998	420 438 477 389 454 500 550
003	GUERNSEY	1956 1957 1958 1959	1 2 1 2	8910 10560 12140 9785	4.7 4.7 4.2 5.1	423 487 509 492	1 2 1 2	11440 11410 7430 10530	473 522 339 518	2 1 1	10344 9123 10987	492 434 529
	HOLSTEIN	1953 1954 1955 1956 1957 1958 1959	6 9 12 17 17 18 8 3	14250 13849 12931 13405 13452 14603 13843 16180	3.7 3.6 3.7 3.6 3.6 3.5 3.7	530 509 476 485 486 513 507 575	6 9 12 17 17 15 8 3	13273 13327 12994 13556 13349 12653 14346 15450	479 474 490 495 485 466 525 584	3 7 10 3 13	12895 13285 13447 12379 12954 12479 15667	447 481 490 476 474 517
	JERSEY	1953 1954 1955 1956 1957	2 1 1 2 2	7865 7050 8120 9225 9300	5.8 5.8 6.0 5.4 5.5	452 411 490 498 507	1	8670	449	1	7456	408
	ALL 8REEDS	1953 1954 1955 1956 1957 1958 1959	8 10 13 20 21 19 10 3	12654 13169 12561 12763 12781 14474 13031 16180	4.2 3.9 3.9 3.9 3.6 3.6 3.6	510 499 477 483 488 513 504 575	7 9 12 18 19 16 10 3	12616 13327 12994 13439 13145 12326 13583 15450	474 474 490 493 489 458 524	4 7 10 3 15 1 9	11535 13285 13447 12379 12606 9123 12313 15667	437 481 490 476 477 434 519
004	GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954	13 12 6 5 7 5 3 3	7677 7617 8308 8344 8236 8704 8813 8963 7790	5.1 5.3 5.4 5.6 5.3 5.4 5.0	387 386 436 454 457 456 471 435	1 1 2 1 4 3 1	8940 8380 9300 9360 8820 9123 9740 9680	383 341 420 519 426 419 399 423	1 1 1	9341 8077 7826	505 428 426
	HOLSTEIN	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	19 17 15 5 2 5 5 5 3 3 2 2 2	11594 9646 10663 14320 14680 13620 14166 14446 14060 15113 13905 13490 12120	3.7 3.8 3.8 4.0 3.7 3.7 3.7 3.5 3.8 3.5	423 349 399 542 594 504 533 529 515 540 520 467 457	3 1 2 3 5 5 3 3 2 2 2	12280 17540 13360 14107 13444 13084 13117 14290 13985 14680 12650	459 662 496 510 499 470 501 514 504 507 467	5 4 3 2	12376 13374 10842 12154	468 492 405 458 419
	JERSEY	1947 1948 1949 1950 1951	4 4 5 2 2	7890 7928 8486 8470	5.1 5.8 5.5 5.6	395 463 457 462	1 1	8510 8440 8410	432 427 461			

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STU0	90550	EDECHENIANO	RECOROS	MILK	T = C 7	FAT	305-DAY CONT			YEARLY		
2100	8REED	FRESHENING YEAR	NO.	L8.	TEST PCT.	LB.	RECOROS NO.	MILK LB.	FAT L8.	RECORDS NO.	MILK L8.	FAT L8.
		1952	1	7990	6.1	487	1	8226	424	110.	LO.	Lo.
		1954	1	9560	6.3	601	i	8980	476	1	9461	530
				.7								
	ALL BREEDS	1947	36	9768	4.3	407	1	8940	383			
		1948 1949	33 26	8700 9701	4.5 4.5	376 419	2	8445 10647	387			
		1950		10855	4.8	492	3	11770	441 547			
		1951	ii	9035	5.4	464	7	10050	450			
		1952		10874	4.6	480	7	11130	459			
		1953		12159	4.4	510	6	12827	483	6	11870	474
		1954	9	12076	4.4	506	7	12011	464	6	11839	488
		1955		10925	4.6	47C	3	13117	501	4	10088	410
		1956	3	15113	3.5	540	3	14290	514			
		1957	2	13905	3.8	520	2	13985	504	2	12154	458
		1958	2	13490	3.5	467	2	14680	507		11000	
006	OUE ONE EN	1959		12120	3.8	457	2	12650	467	1	11282	419
005	GUERNSEY	1947 1948	5 13	10556 9005	4.9 5.0	513 452	5	8916	h.c.c			
		1949	19	8532	5.1	432	9	9408	455 467			
		1950	35	8909	5.1	450	20	9077	449			
		1951	63	9199	5.1	464	51	9308	467			
		1952	115	8912	5.0	449	96	9186	451			
		1953	141	8198	5.0	409	132	8998	437	76	9268	453
		1954	129	8804	5.1	450	117	9433	464	111	9286	461
		1955	115	8660	5.1	437	103	9401	460	92	9220	462
		1956	86	9178	5.1	463	78	9731	469	4	10628	456
		1957	81	9179	5.0	461	76	9901	463	57	9824	474
		1958	65	9227	4.9	452	52	9947	465	3	11187	492
		1959 1960	31 14	9691 10424	5.0	477	27	9725	472	26	9822	489
					4.8	498	12	9467	466	13	10026	496
	HOLSTEIN	1947	1	15440	3.2	497						
		1948 1949	14 5	13850	3.3	455		16610	677			
		1950		13734 13354	3.2 3.4	434 456	1	15510 14825	537 531			
		1951		14159	3.5	491	33	13065	472			
		1952	86	13947	3.5	484	69	13143	477			
		1953	123	13144	3.5	462	112	12587	460	7 L	12727	467
		1954	167	13234	3.6	477	151	12503	464		12398	459
		1955	160	13177	3.6	473	147	12637	471	121	12728	472
		1956	152	12727	3.7	466	139	12511	473	3	12393	445
		1957	127	12545	3.6	449	113	12265	461	88	12501	472
		1958	90	13494	3.6	487	74	13331	503	5	12692	464
		1959 1960	52 8	14048 11629	3.5 3.6	496 415	48 7	13802 12230	504 444	47 5	13748 13209	505 481
	IEUSEV									_	13207	401
	JEKSEY	1947 1948	16 22	8486 8812	5.9 5.9	503 512	2 7	7710 9697	401 518			
		1949	26	9188	5.9	537	6	9682	544			
		1950	25	8986	6.0	540	10	9274	510			
		1951	25	8638	5.8	498	17	9147	501			
		1952	40	8547	5.8	491	25	8670	473			
		1953	28	8788	5.7	501	22	8375	458	9	8370	450
		1954	28	8570	5.7	485	23	8241	459	18	8364	463
		1955	25	8362	5.5	457	20	8835	480	19	8648	473
		1956	15	8857	5.5	481	12	9320	505			
		1957	10	9110	5.6	508	9	8863	466	y	9082	468
		1958	12	9115	5.5	501	6	9567	524		0700	
		1959 1960	6 3	9082 8807	5.3 5.6	481 489	6 3	8930 8440	469 443	6 2	9382 9015	502 479
,	1. SHORTHORN	1957	l4	9080	3.9	357	1	9160	366	ı	9287	378
		1958	2	10275	4.4	446						
		1959	2	12160	3.7	457	1	9860	337	1	10006	356
		1960	1	12750	3.4	427	1	8850	306	1	9810	346
	ALL BREEDS	1947	22	9272	5.6	505	2	7710	401			
		1948	39	9393	5.3	486	12	9372	492			
		1949	50	9393	5.3	486	16	9892	501			
		1950	67	9402	5.2	484	32	9498	473			
		1951 1952	130 241	10693 10648	4.7 4.6	479 468	101 190	10509 10555	475 463			
		1953	292	10338	4.4	440	266	10355	448	159	10827	459
		1954	324	11068	4.4	467	291	10932	464	267	10833	460
		1955	300	11045	4.3	458	270	11121	467	232	11002	468
		1956	253	11291	4.3	466	229	11397	474	7	11384	451
										155		472
		1958	169	11504	4.3	474	132	11827	489	ь	12128	475
		1959	91	12195	4.1	487	82	12055	489	80	12098	498
		1960	26	10697	4.5	469	23	10147	449	21	10677	483
006	GUERNSEY	1947	1	5760	4.2	242						
	5 CZ.1110 L 1	1948	12	8013		417						
		1949	13									
006	GUERNSEY	1957 1958 1959 1960 1947 1948	222 169 91 26 1	11100 11504 12195 10697	4.2 4.3 4.1 4.5	454 474 487 469 242	199 132 82	11192 11827 12055	461 489 489	155 გ 80	11297 12128 12098	

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TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

CTUD	90550	FORGUENING	0556005	MILL	TECT	C 4 T	305-DAY CONTEMPORARY AV. YEARLY HERD AVERAGE RECORDS MILK FAT RECORDS MILK FAT
STUD	8REED	FRESHENING	RECORDS	MILK	TEST	FAT	
		YEAR 1950	NO.	LB. 6382	PCT.	LB.	NO. LB. L8. NO. L8. LB.
		1951	ì	6040	5.4	312 32 7	
		1731	•	0040	3.4	321	
	JERSEY	1959	1	8760	5.0	439	
	ALL BREEDS	1947	1	5760	4.2	242	
		1948	12	8013	5.2	417	
		1949	13	6120	4.9	307	
		1950	6	6382	4.9	312	
		1951	1	6040	5.4	327	
		1959	1	8760	5.0	439	
800	GUERNSEY	1954	1	8150	4.6	378	1 7000 297
	002	1955	i	7630	4.9	377	1 8310 356 1 7303 317
	JERSEY	1947	3	7513	5.4	408	1 8120 430
		1948	4	8143	5.2	418	1 9870 518
		1949	2	9075	5.0	504	1 10460 560
		1950	1	8350	5.6	468	
		1951	1	8630	5.2	453	1 9150 476
		1952	1	4520	4.9	222	1 7930 407 1 8020 429 1 7794 421
		1953	1	6 180	4.6	285	1 8020 429 1 7794 421
	ALL BREEDS	1947	3	7513	5.4	468	1 8120 430
		1948	4	8143	5.2	418	1 9870 518
		1949	2	9075	5.6	504	1 10460 560
		1950	1	8350	5.6	468	
		1951	1	8630	5.2	453	1 9150 476
		1952	1	4520	4.9	222	1 7930 407
		1953	1	6180	4.6	286	1 8020 429 1 7794 421
		1954	1	8150	4 • 6	37B	1 7000 297
		1955	1	7630	4.9	377	1 8310 356 1 7303 317
009	HOLSTEIN	1949	1	15350	3.3	513	1 14670 504
		1950	14	15805	3.4	539	5 15762 546
		1951	21	15060	3.6	534	11 15010 541
		1952	16	14637	3.5	509	13 14404 516
		1953	21	13401	3.5	464	21 13176 466 12 14500 518
		1954	13	13590	3.4	465	13 13107 470 12 12660 450
		1955	9	13383	3.6	481	9 13286 474 6 13582 492
		1956	8	13534	3.5	478	7 13190 494
		1957	7	15537	3.5	542	7 14354 516 6 13703 491
		1958	10	14426	3.7	523	7 14466 536
		1959	5	15722	3.6	565	5 15022 558 5 14745 535
	ALL BREEDS	1949	1	15350	3.3	513	1 14670 504
		1950	14	15805	3.4	539	5 15762 546
		1951	21	15060	3.6	534	11 15010 541
		1952	16	14637	3.5	509	13 14404 516
		1953	21	13401	3.5	464	21 13176 466 12 14500 518
		1954	13	13590	3.4	465	13 13107 470 12 12660 450
		1955	9	13383	3.6	481	9 13286 474 6 13582 492
		1956	8	13534	3.5	478	7 13190 494
		1957	7	15537	3.5	542	7 14354 516 6 13703 491
		1958	10	14426	3.7	523	7 14466 536
		1959	5	15722	3.6	565	5 15022 558 5 14745 535

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRLS IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS---GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUO 8REEO	FRESHENING YEAR	RECOROS MIL		FAT L8.	305-DAY CONTI RECORDS NO.	EMPCKARY MILK L8.	AV. FAT L8.	YEARLY H RECORDS NO.	HERO AVI MILK LB.	ERAGE FAT L8.
001 GUERNSEY	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 881 4 837 10 864 11 930 28 904 83 880 190 825 256 836 293 828 229 859 229 857 177 884 65 926 65 926	4 . 6 7 4 . 8 9 4 . 8 9 4 . 8 4 . 9 4 . 8 4 . 8 4 . 8 4 . 8 4 . 8 7 4 . 8	390 380 418 445 430 421 404 398 402 407 417 423 385	1 1 4 16 63 167 237 275 205 204 152 53	9780 8660 9333 9886 9515 9013 8962 9108 9541 9722 9762 9313 9345	438 422 424 465 450 423 420 418 431 440 435 433 404	118 206 248 188 180 115 27 7	9117 9092 9061 9215 9489 9687 9771 9558	434 429 420 421 432 435 456 426
HOLSTEIN	1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 1440 9 1401 22 1367 60 1232 134 1142 234 1159 343 1186 456 1198 529 1215 509 1246 256 1349 82 1352	3.5 3.8 3.8 3.9 3.8 3.8 3.8 3.7 3.7 3.7 3.7	539 490 513 469 433 435 440 447 454 480 487	1 5 12 52 124 218 334 435 496 402 241	15680 13906 13628 11353 10764 10916 11230 11764 11824 12261 12978 13289	551 478 540 459 431 430 441 454 453 464 485 492	64 184 278 343 453 305 133 41	10319 10788 11124 11240 11520 11875 12926 12581	418 432 441 439 448 454 489 474
JERSEY	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	6 727 27 900 71 877 118 860 270 837 390 831 408 842 417 821 415 842 392 836 372 858 371 891 151 887	5.5 5.5 5.5 5.5 5.5 5.4 5.3 5.3 5.5 5.4 5.3 5.3 5.5 5.4 5.5 5.5 5.4 5.5 5.5 5.5 5.5 5.5	400 494 492 469 458 453 453 437 436 452 478	1 4 20 46 130 220 241 209 224 198 196 292	8430 9293 9368 8661 8496 8506 8509 8698 9107 9043 8907 9022	449 503 509 470 473 454 455 455 472 481 478	146 230 194 205 186 187 205 76	8555 8728 8672 8813 8669 9052 9218 8891	454 463 460 462 450 478 496 469
8ROWN SWISS	1954 1955 1956 1957 1958 1959 1960	1 822 4 1006 2 1082 17 1229 37 1166 14 1190 4 1209	4.4 0 4.5 9 4.3 7 4.3 4 4.2	428 438 482 526 503 496 497	10 24 6 4	10792 11415 11652 10913	453 493 460 445	10 24 5 2	10610 10336 11478 13418	447 447 463 524
ALL 8REEOS	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	3 881 10 771 40 931 91 935 168 934 413 903 714 888 899 923 1057 942 1102 993 1167 1018 1095 1053 706 1066 251 1041	5 · 2 5 · 2 5 · 3 5 · 1 5 · 1 5 · 0 5 · 0 4 · 8 4 · 7 4 · 4 4	390 392 478 486 452 432 437 437 436 449 472	2 6 29 74 245 511 696 818 864 908 774 592 215	9105 10252 10146 9731 9529 9215 9416 9822 10442 10748 10968 10628	444 498 492 480 464 438 436 436 449 454 464 476 477	328 620 720 736 829 631 370 126	9 10 1 9 4 60 9 7 5 3 1 00 4 7 1 04 2 8 1 0 5 6 1 1 0 6 2 2 1 0 2 0 1	440 443 439 4415 445 458 490 469
002 GUERNSEY	1950 1952 1953 1954 1955 1956 1957 1958 1959	1 915 3 755 6 813 7 826 8 847 7 836 5 944 8 940 5 975 1 920	5.0 5.2 5.2 5.0 5.1 4.9 5.2 4.7 4.7	428 416 433 418 495 434	1 3 6 7 7 6 5 6 4	8370 7983 9467 9801 8797 9148 9480 9247 8405	408 404 486 460 429 466 486 444 414 479	2 7 0 5 5 5 3 1	8851 10376 9717 8533 8971 9376 10028 8371	453 502 489 482 459 463 510 392
HOLSTEIN	1951 1952 1953 1954 1955 1956 1957	1 1036 1 845 2 889 5 1217 10 1111 9 1110 5 1138	0 4.4 0 3.7 6 3.7 0 3.7 0 3.5	374 325 456 414 386	1 5 10 9 5	9540 11322 10484 11319 12648	407 434 403 424 459	1 4 6 0 4	9963 11494 11414 10693 11124	448 457 445 417 428

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING URGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

	5	,	OKEED,		0							
							305-CAY CONT			YEARLY		
S TUO	BREED	FRESHENING	RECOROS	MILK	TEST	FAT	RECORDS		FAT	RECURDS		FAT
		YEAR	NO.	L8.	PCT.	Le.	NO.	LB.	LB.	NO.	LB.	LB.
		1959	12	14182	3.4	480	12	13170	477	11	13229	473
		1960	1	11160	3.2	353				1	14039	501
	JERSEY	1951	14	9965	5.4	538	3	8087	469			
		1952	14	9541	5.3	499	9	8462	474			
		1953	14	9619	5.3	502	9	8281	453	9	8954	481
		1954	8	8683	5.4	457	5	9248	467	2	9516	493
		1955	9	8308	5.1	423	5	8698	481	ī	7881	443
		1956	6	7562	5.0	373	2	8345	481	2	7887	428
		1957	3	7683	5.0	378	2	8345	430	2	8437	430
		1958	5	9004	5.4	487	3	10440	559	ī	9374	489
		1959	3	8323	5.1	429	3	9087	483	3	9403	508
	ALL BREEDS	1950	1	9 150	4.6	420	1	8370	408			
	ALL OKEEUS	1951	5	10044		515	3	8087	469			
		1952	18	9149	5.1 5.2	471	12	8343	457			
										12	0021	474
		1953	22	9147	5.1	466	16	8088	463		9021	
		1954	20	9409	4.8	442	17	10086	455	13	10588	487
		1955	27	9396	4.6	423	22	9541	429	13	10359	465
		1956	22	9265	4.3	393	17	10203	445	13	9430	444
		1957	13	9785	4.5	425	12	10611	465	11	9656	442
		1958	26	12019	4.3	496	21	11643	474	13	11085	463
		1959	20	12 197	3.9	465	19	11522	464	17	11989	485
		1960	2	10180	3.7	364	1	11180	479	2	11205	447
003	GUERNSEY	1947	2	10250	4.8	493						
		1948	1	5760	5.6	321						
		1949	4	9090	4.7	429	2	8460	424			
		1950	7	9427	4.4	414	5	8948	431			
		1951	9	9873	4.7	459	6	9080	443			
		1952	8	9615	4.6	432	6	9362	471			
		1953	7	9026	4.4	395	6	8410	419	6	9196	452
		1954	7	8733	4.4	382	6	8413	413	6	8595	426
		1955	5	9200	4.0	368	5	8730	428	5	9040	450
		1956	14	9298	4.5	420	4	8838	454	4	9306	470
		1957	2	9370	4.4	418	2	10085	496	2	8955	456
		1958	2	9105	4-4	406	2	10225	508	2	9821	495
	JERSEY	1947	2	9200	5.4	491						
		1948	12	8273	5.2	431						
		1949	15	8301	5.5	452	1	8160	402			
		1950	13	8375	5.3	441	i	10400	547			
		1951	13	8140	5.4	434	2	7605	410			
		1952	9	7097	5.3	369	2	8545	462			
		1953	6	8613	5.3	450	4	7255	382	3	6994	374
		1954	3	8627	5.2	438	i	7250	414	2	7467	388
		1955	ī	5380	6.7	361				ī	6954	402
	ALL BREEDS	1947	4	9725	5.1	492						
	HEE ONEEDS	1948	13	8080	5.2	422						
		1949	19	8467	5.3	422	3	8360	416			
		1950	20	8743	5.0	432	5	9190	451			
		1951										
		1952	22 17	8849	5.1	444	8	8711	435			
				8282	5.0	399	8	9158	469		01.40	1.27
		1953	13	8835	4.8	421	10	7948	404	9	8462	426
		1954	10	8701	4.6	399	7	8247	413	8	5313	417
		1955	6	8563	4.5	367	5	8730	428	6	8693	442
		1956	4	9298	4.5	420	4	8838	454	4	9306	470
		1957	2	9370	4.4	418	2	10085	496	2	8955	456
		1958	2	9105	4.4	406	2	10225	508	2	9821	495

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

5.7110	90550	EDECUENTAG	UECABAC.	MTIV	TIET	5 A T	305-DAY CONTE			YEARLY I		
STUD	8REED	FRESHENING YEAR	RECORDS NO.	MILK L8.	PCT.	FAT L8.	RECORDS NO.	MILK LB.	FAT L8.	RECORDS NO.	MILK L8.	FAT LB.
001	GUERNSEY	1948 1949	12 38	7598 7770	4.7	350 379						
		1950	39	7203	4.8	346						
		1951	32	6680	4.8	319						
		1952 1954	10 7	5855 9567	4.8 5.1	284 490	7	10613	496			
		1955	19	8711	4.8	413	19	8993	419			
		1956	21	8480	4.7	399	21	8609	405			
		1957	21	8316	4.9	406	21	8146	407			
		1959 1960	1	7820 9360	4.8 5.1	377 473	1	8270 7750	401 370			
	HOLSTEIN	1950	2	14855	4.3	633	1	14780	528			
		1951	5	12558	4 - 1	513	2	13060	497			
		1952 1953	12 14	11798 12146	3 • 8	446	8	12905	476			
		1954	30	12146	3.7 3.8	451 489	11 24	13265 13835	476 518			
		1955	37	13124	3.7	486	32	14232	512			
		1956	35	13037	3.7	482	29	12844	488			
		1957	39	15057	3.8	569	21	13775	517			
		1958 1959	39 77	14382 15561	3.7 3.7	524 565	30 7 6	14280 15149	523 559	ا خ	15729 14882	540 530
		1960	15	14957	3.5	531	15	14721	541	3	14002	220
	JEKSEY	1951	2	10285	5.1	520						
		1952 1953	6 16	10450 10101	4.9 5.4	513 548						
		1954	15	11266	5.2	581						
		1955	6	9040	5.2	467	1	8040	424	1	8197	432
		1956	5	8040	5.5	442	2	8565	442	2	8442	441
		1957	7	8516	5.2	448	2	8345	414	2	8987	451
		1958 1959	7 16	10489 10911	5.3 5.6	553 607	4 14	9873 10514	529 551	1 3	9625 9447	474 509
		1960	7	11500	5.6	635	7	10434	534	ĩ	8448	482
	ALL BREEDS	1948	12	7598	4.7	350						
		1949 1950	38 41	7770 7576	4.9 4.8	379 360	1	14780	528			
		1951	39	7619	4.7	354	2	13060	497			
		1952	28	9387	4.4	403	8	12905	476			
		1953	30	11055	4.6	502	11	13265	476			
		1954	52	11966	4.4	515	31	13107	513	,	01.17	1. 20
		1955 1956	62 61	11376 11059	4.2 4.2	462 451	52 52	12199 10969	476 453	1 2	8197 8442	432 44 1
		1957	67	12261	4.3	505	44	10841	460	2	8987	451
		1958	46	13789	3.9	528	34	13761	523	2	12677	507
		1959 1960	94 23	14687 13662	4.0 4.2	571 560	91 23	14360 13113	556 532	6	12164 8448	520 482
002	CHEDNEEN	1958	1	6240				13113	332	·	0140	702
002	GUERNSEY	1959	i	6890	4.5 4.8	281 331	1	9800	472	1	10355	505
	ALL BREEDS	1958	!	6240	4.5	281					10755	
		1959	1	6890	4.8	331	1	9800	472	1	10355	505
003	GUERNSEY	1955 1956	3 2	7703	5.2 4.6	39 <i>1</i> 388	1	11950 11410	455 425	1	7761 9875	286 367
		1957	2	8595 10105	4.4	442	i	12350	414	i	11925	458
		1958	ĩ	9730	5.1	496	i	9880	471			
		1959	1	10500	5.0	529	1	11000	520	1	11772	505
	HOLSTEIN	1954	1	11840	3.9	461	1	15570	580			
		1955	4	10348	3.7	387	4	11928	444	2	7652	292
		1956 1957	5 4	7916 13728	3.6 3.5	288 479	5 4	10604 15028	385 510	3 1	7238 6278	288 237
		1958	6	16553	3.6	581	6	15293	554	2	10944	405
		1959	13	17441	3.6	625	13	16879	622	_		
		1960	20	15236	3.7	560	20	15165	555			
	JERSEY	1956 1957	2 1	7010 5570	5.1 5.2	356 289						
	ALL BREEDS	1954	1	11840	3.9	461	1	15570	580			
		1955	7	9214	4.3	391	5	11932	446	3	7688	290
		1956 1957	9 7	7866 11527	4.2	325	6 5	10738 14492	392 491	4 2	7897 9102	308 348
		1957	7	15579	4.0 3.8	441 569	5 7	14492	542	2	10944	405
		1959	14	16945	3.7	618	14	16459	614	ĩ	11772	505
		1960	20	15236	3.7	560	20	15165	555			
004	HOLSTEIN	1954 1955	8 18	12780 12252	3.6 3.7	464 456	7 15	13809 12757	511 474	1	7652	292
		1956	8	13381	3.6	467	6	13330	487	3	11569	431
		1957	9									

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING GRGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUD	BREED	FRESHENING YEAR 1958 1959 1960	KECORDS NO. 10 12 3	M1LK LB. 13070 14362 10730	TEST PCT. 3.7 3.7 3.6	FAT LB. 488 531 390	3	05-DAY CUNT RECORDS NO. 9 11		AV. FAT LB. 513 529 398	YEARLY RECURDS NO. 5 7 2	HERD AV M1LK LB. 12313 12675 13342	ERAGE FAT LB. 456 548 497
	ALL BREEDS	1954 1955 1956 1957 1958 1959	8 1B 8 9 10 12 3	12780 12252 13381 13191 13070 14362 10730	3.6 3.7 3.6 3.8 3.7 3.7	464 456 469 495 488 531 390		7 15 6 7 9 11	13809 12757 13330 13286 13914 14337	511 474 487 485 513 529 398	1 3 1 5 7 2	7652 11569 6278 12313 12675 13342	292 431 237 456 548 497
005	GUERNSEY	1953 1954 1955 1956 1957 1958 1959	2 3 4 3 3 1 2	9050 8237 8938 10583 11303 10100 8420	5.6 4.9 5.4 5.2 4.9 5.0 4.8	507 406 469 543 553 500 400		1 1 1 2	12070 11080 10430 9035	632 529 473	1	9505	456
	HOLSTEIN	1948 1949 1950 1952 1953 1954 1955 1956	6 10 11 6 10 4 18 31	13432 16056 15004 14440 15320 13008 12557 13325 13673	3.7 3.7 3.8 3.6 3.5 3.7 3.7	498 588 555 555 551 448 466 493 512		3 17 24 25	13313 11799 13355 13987	463 421 489 507	1 13 21 24	13440 11679 12077 12384	440 4 1 9 450 458
	JERSEY	1958 1959 1960 1953	53 87 9	13901 13737 12589 9890	3.8 3.8 3.6	529 523 459 544		40 76 8	13198 13771 13065	500 516 470	36 67 5	12617 13595 12034	479 515 427
		1957 1958 1959	1 4 8	9930 B225 9544	5.6 4.9 5.5	553 390 518		1	9190 6920 9021	479 376 491	1 5	7979 8960	42B 474
E	BROWN SWISS	1959	3	10007	3.9	385		2	10250	430	1	11064	451
	ALL BREEDS	1948 1949 1950 1952 1953 1954 1955 1956 1957 1958 1959	6 10 11 6 20 7 22 34 35 58 100	13432 16056 15004 14440 12521 10963 11899 13083 13363 13444 13184 12589	3.7 3.7 3.8 4.6 4.1 4.0 3.9 3.9 4.0 3.6	498 588 555 544 430 467 497 517 519 516 459		3 18 25 27 41 e7 8	13313 11814 13264 13678 13045 13199 13065	463 432 490 505 497 510 470	1 13 21 24 37 74	13440 11679 12077 12384 12492 13192 12034	440 419 450 458 478 510 427
007	GUERNSEY	1949 1950 1951 1952 1953	1 14 24 16 2	11800 9130 8912 8926 9355	4.8 5.3 5.1 5.0 4.6	566 481 448 444 430							
	HOLSTEIN	1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1959		14640 14145 14109 13561 13494 14010 15566 15597 13288 16085 18470 18400	4.0 3.8 3.8 3.7 3.7 3.6 3.6 3.6 3.6 3.3	586 537 531 502 500 513 553 553 5482 511 573 610		1 5 7 5 2 2 1	9370 15806 16420 16668 17290 17255 17540	496 586 610 616 598 614 630			
	JERSEY	1949 1950 1951 1952 1953	2 6 2B 32 16	8485 8343 9212 8969 9024	5.2 5.3 5.1 5.2 5.4	436 438 470 464 482							
E	BROWN SWISS	1950 1952 1953	1 2 4	10860 11950 9833	4.0 4.7 4.7	440 554 463							
	ALL BREEDS	1948 1949 1950	2 56 92	14640 13901		586							

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING URGANIZATIONS---GROUPEO BY STUU, BY BREED, BY YEAR OF FRESHENING

	GROOFE	0 01 3100, 01	DREED, DI TEAM	CFFK	ESHERING				
STUD	BREED	FRESHENING YEAR 1951	RECORDS MILK NO. LB. 148 11984	PCT.	FAT L8. 483	305-DAY CONTI RECORDS NO.		AV. FAT LB.	YEARLY HERD AVERAGE RECURDS MILK FAT NO. LB. LB.
		1952	195 12360		490				
		1953	167 13377		508	1	9370	496	
		1954	19 15566		553	5	15806	566	
		1955	7 15597		553	7	1642C	610	
		1956	5 13288		482	5	16668	616	
		195 7 1959	2 10000	3.2	511 573	2	17255	598 614	
		1960	7 15597 5 13288 2 16085 2 18470 1 18400		610	1 5 7 5 2 2 2	17540	630	
			1 10250 16 10010 22 10290 17 10305						
008	GUERNSEY	1949	1 10250	5.4	551				
		1950	16 10010	5.3	521				
		1951 1952	17 10305	5.1 5.0	518 504				
		1953	23 9737		498	3	11063	469	
		1954	18 9044		465	3 4 2	10130	423	
		1955	2 8400		435	2	12570	544	
		1956	2 8885		456				
		1957 1958	1 7500 3 9873	4.7 4.7	350 469	2	8110	388	
		1959	2 8400 2 8885 1 7500 3 9873 2 8920		460	2	8730	404	
						-			
H	HOLSTEIN	1949	9 13244	4.1	548				
		1950	28 13644 31 14355	4.3	581		0500	770	
		1951 1952	51 14355 60 12783		604 523	1 7	9500 10006	372 401	
		1953	81 12750		512	18	10321	401	
		1954	60 12783 81 12750 69 11630 59 12114 40 12246 12 13119		457	41	10922	429	
		1955	59 12114	3.7	444	58	11669	448	
		1956	40 12246		436	40	12218	457	
		1957	12 13119		468	11	13705	498	
		1958 1959	7 16684	3.6	510 592	7	14304 1512h	522 546	
		1960	8 14935 7 16684 1 11930		499	7 18 41 56 40 11 8 7	15900	562	
	JERSEY	1948	1 10720 1 12220 3 9553 2 11005 9 8294 13 9162		481				
		1949	1 12220		580				
		1950 1951	2 11005		471 541				
		1952	9 8294		461				
		1953	13 9162	5.5	503				
		1954	9 (6/6	5.4	408				
		1955			460				
		1956	1 11440	5.0	574				
AL	LL BREEDS	1948	1 10720	4.5	481				
		1949	11 12879	4.3	551				
		1950	47 12146		553				
		1951	55 12607		568	1 7	9500	372	
		1952 1953	86 11824 117 11759		513 508	21	10000	401 413	
		1954	96 10918		454	45	10852	429	
		1955	67 11684	3.9	445	60	11700	451	
		1956	43 12071		441	40	12218	457	
		1957	43 12071 13 12687 11 13555 9 14959 1 11930		459	7 21 45 60 40 11	13705	498	
		1958 1959	0 11.050	4.0	499 562	6	13703	496 514	
		1960	1 11930		499	í	15900	562	
						·			
009	GUERNSEY	1949	1 9740	5.2	505				
		1950	1 8600	4.8	417		11,720	45 15 T	
		1951 1952	2 9005 4 8725	5.1 5.0	456 432	1	1433C 13730	521 529	
		1953	4 9233	4.9	453	2	11765	527	
		1954	4 7690	5.1	395	1	13360	527	
		1955	4 8813	4.8	415	1	8110	361	
		1956	1 8770	4.6	399				
ı	HOLSTEIN	1948	8 12691	3.6	457				
	1102312111	1949	14 13129	3.6	470				
		1950	34 12013	3.7	442	4	15033	555	
		1951	24 11369	3.6	412	3	12957	515	
		1952	8 11169	3.5	398	3	12733	463	
		1953 1954	1 18110 2 12645	3.5 3.6	631 456	1 2	12210 13120	465 478	
		1955	1 13810	3.4	471	1	15240	587	
	JERSEY	1947	5 9886	5.1	506				
		1948 1949	5 9644 7 9591	5.3 5.4	508				
		1950	13 7384	5.3	513 385				
		1951	7 7099	5.4	380				
		1952	1 8550	5.4	462				
		1953	2 8785 1 8990	5.7	502	2 1	9325 10 1 60	487 550	
		1954	1 0440	5.6	505		10100	220	

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHTERS OF SIRES IN SURVICE IN ARTIFICIAL BREEDING ORGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							705 014 5017				45 D.A.	50.465
CTUO	00650	FOELVENING	0550005	MTIV	TOOT	CAT	305-DAY CONT			YEARLY I		FAT
STUO	BREEO	FRESHENING YEAR	RECOROS NO.	MILK LB.	TEST PCT.	FAT LB.	RECORDS NO.	MILK LB.	FAT LB.	RECURLS NO.	MILK LB.	LB.
		1955	2	7070	5.9	415	2	7580	424	2	8208	442
		1956	1	4970	5.4	269	1	10320	552	í	b927	498
		1957	i	7740	5.5	423	i	10250	562	i	9320	502
	ALL BREEOS	1947	5	9886	5.1	500						
		1948	13	11519	4.2	476						
		1949	22	11849	4.2	485						
		1950	4B	10688	4 - 1	426	4	15033	555			
		1951	33	10320	4 - 1	408	4	13300	516			
		1952	13	10215	4.1	413	4	12983	480			
		1953	7	10373	4.9	493	5	10878	498			
		1954	7	9291	4.8	428	14 14	12440	508		41200	1, 1, 2
		1955	7	9029	4.9	423	1	9628	449	2	8208	442 498
		1956	2	6870	5.0	334	<u> </u>	10320	552	i	8927	502
		1957	1	7740	5.5	423	•	10250	562	'	9320	502
010	GUERNSEY	1954	1	9300	4.8	449						
		1955	1	5050	4.9	246						
	HOLSTEIN	1955	11	11268	3.6	402	11	11965	438			
	1102312111	1956	6	11467	3.7	410	6	11367	415			
		1957	ĭ	17210	3.7	636	ī	15290	572			
		1958	10	16157	3.5	55B	10	15276	546			
		1959	7	16849	3.6	601	7	15174	548			
	ALL BREEOS	1954	1	9300	4.8	449						
		1955	12	10750	3.7	389	11	11965	438			
		1956	6	11467	3.7	416	6	11367	415			
		1957	1	17210	3.7	636	1	15290	572			
		1958	10 7	16157	3.5	558	10 7	15276 15174	546 548			
		1959	'	16849	3.6	601	,	15114	340			
075	GUERNSEY	1955	8	8294	4.8	396	4	9493	434	2	10562	460
		1956	9	8047	5.0	399	6	8032	388	5	7536	365
		1957	27	7979	4.7	376	18	9403	4 15	21	9106	411
		1958	37	8421	4.7	395	33	9375	420	28	9176	415
		1959	32	7850	4.9	380	30	9012	4 10	23	9603	436
		1960	7	B369	4.9	404	7	9233	411	6	გ618	408
	HOLSTEIN	1958	8	13003	3.6	468	b	14498	519	2	13462	514
		1959	22	14399	3.7	523	19	14418	529	16	14674	535
		1960	4	13055	3.4	438	4	14410	486	3	13211	458
	JEKSEY	1952	8	7973	5.1	405	3	8203	426			
	•••••	1953	42	9091	5.1	466	15	8189	438	ь	8630	450
		1954	52	8329	5.2	435	23	8057	417	21	7867	400
		1955	55	8456	5.2	439	27	8301	427	25	7960	413
		1956	34	8971	5.3	480	15	1688	465	14	8007	427
		1957	26	8570	5.2	448	18	8852	451	16	8506	436
		1958	36	8106	5.4	439	17	8866	456	8	8285	422
		1959	43	9337	5.2	484	30	6897	465	29	9061	475
		1960	16	9601	5.5	524	13	9098	400	7	8595	456
	ALL BREEOS	1952	8	7973	5.1	405	3	8203	426			
		1953	42	9091	5.1	466	15	8189	438	8	8630	450
		1954	52	8329	5.2	435	23	8057	417	21	7867	400
		1955	63	8435	5.1	433	31	8455	428	21	8 153	416
		1956	43	8777	5.2	463	21	8624	443	19	7883	411
		1957	5.3	8269	5.0	411	36	9128	433	39	8829	422
		1958	81	8734	4.9	422	56	9769	442	36	9214	421
		1959	97	9994	4.7	458	79	10268	460	68	10565	476
		1960	27	9793	5.0	480	24	10023	461	16	9469	438

TABLE 10.--AVERAGE OF THE RECORDS OF CAUGHTERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING GRANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

STUO	8KEED	FRESHENING YEAR	RECOROS NO.	MILK	TEST PCT.	FAT LB.	305-	DAY CONTE RECORDS NO.	MPORARY MILK LB.	AV. FAI LB.	YEARLY H RECORUS NO.	MILK LB.	ERAGE FAT LB.
001	HOLSTEIN	1956	1	7//0	3.2	247							
	ALL BREEOS	1956	1	7770	3.2	247							
007	HOLSTEIN	1952 1953	8		4.3 3.6	513 426							
	ALL BREEDS	1952 1953	8	11930 11760	4.3 3.6	513 426							

TABLE 10.--AVERAGE OF THE RECORDS OF DAUGHLERS OF SIRES IN SERVICE IN ARTIFICIAL BREEDING URGANIZATIONS--GROUPED BY STUD, BY BREED, BY YEAR OF FRESHENING

							305-DAY CONT	EMPORARY	AV.	YEARLY HERD	AVERAGE
STUD	BREED	FRESHENING	RECORDS	MILK	TEST	FAT	RECORDS	MILK	FAT	RECORUS MIL	K FAT
		YEAR	NO.	L8.	PCT.	LB.	NC.	LB.	L8.	NO. LE	. L6.
001	HOLSTEIN	1953	1	13310	3.4	456					
		1954	2	12855	3.⊎	482	1	6840	293		
		1955	1	9940	3.4	335	1	13910	497		
		1956	4	12565	3.6	454	4	10220	417		
		1957	6	13997	3.6	499	6	12158	469		
		1958	7	13606	3.8	528	7	12733	502		
		1959	7	14053	3.6	513	7	13806	516		
	ALL BREEDS	1953	1	13310	3.4	456					
		1954	2	12855	3.8	482	1	6840	293		
		1955	1	9940	3.4	335	1	13910	497		
		1956	4	12565	3.6	454	14	10220	417		
		1957	6	13997	3.6	499	6	12158	469		
		1958	7	13806	3.8	528	7	12733	502		
		1959	7	14053	3.6	513	7	13806	516		





